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**R 400.20608**  
Source: 1983 AACS.

**R 400.20609**  
Source: 1983 AACS.

**R 400.20610**  
Source: 1983 AACS.

**R 400.20611**  
Source: 1983 AACS.

**R 400.20612**  
Source: 1983 AACS.

**R 400.20613**  
Source: 1983 AACS.

**R 400.20614**  
Source: 1983 AACS.

**R 400.20615**  
Source: 1983 AACS.

**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**  
**BUREAU OF WORKERS' DISABILITY COMPENSATION**

**GENERAL RULES**

**PART 1. RECORDS**

**R 408.31**  
Source: 1998-2000 AACS.

**R 408.31a**  
Source: 1998-2000 AACS.

**R 408.32**  
Source: 1998-2000 AACS.

**R 408.32a**  
Source: 1998-2000 AACS.

**R 408.33**  
Source: 1998-2000 AACS.

**PART 2. HEARINGS**

**R 408.34**  
Source: 1998-2000 AACS.

**R 408.35**  
Source: 1998-2000 AACS.

**R 408.36**  
Source: 1984 AACS.

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**R 408.37**  
Source: 1998-2000 AACS.

**R 408.38**  
Source: 1998-2000 AACS.

**R 408.39**  
Source: 1998-2000 AACS.

**R 408.40**  
Source: 1998-2000 AACS.

**R 408.40a**  
Source: 1998-2000 AACS.

**R 408.40b**  
Source: 1998-2000 AACS.

**R 408.40c**  
Source: 1998-2000 AACS.

**R 408.40d**  
Source: 1998-2000 AACS.

**R 408.40e**  
Source: 1998-2000 AACS.

**R 408.40f**  
Source: 1998-2000 AACS.

**R 408.40g**  
Source: 1998-2000 AACS.

**R 408.40h**  
Source: 1998-2000 AACS.

**PART 3. INSURANCE**

**R 408.41b**  
Source: 1998-2000 AACS.

**R 408.41c**  
Source: 1998-2000 AACS.

**R 408.42**  
Source: 1998-2000 AACS.

**R 408.42a**  
Source: 1998-2000 AACS.

**R 408.42b**  
Source: 1998-2000 AACS.

**R 408.43**  
Source: 1998-2000 AACS.

**R 408.43a**

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**Source:** 2007 AACS.

**R 408.43b**

**Source:** 1998-2000 AACS.

**R 408.43c**

**Source:** 1998-2000 AACS.

**R 408.43i**

**Source:** 2007 AACS.

**R 408.43k**

**Source:** 2007 AACS.

**R 408.43m**

**Source:** 2007 AACS.

**R 408.43n**

**Source:** 1998-2000 AACS.

**R 408.43q**

**Source:** 2007 AACS.

**R 408.43s**

**Source:** 2003 AACS.

**R 408.43t**

**Source:** 2006 AACS.

**PART 4. MISCELLANEOUS**

**R 408.44**

**Source:** 1998-2000 AACS.

**R 408.45**

**Source:** 1998-2000 AACS.

**R 408.46**

**Source:** 1998-2000 AACS.

**R 408.48**

**Source:** 1985 AACS.

**PART 5. REVIEW AND APPEAL**

**R 408.49**

**Source:** 1998-2000 AACS.

**R 408.50**

**Source:** 1998-2000 AACS.

**R 408.51**

**Source:** 1998-2000 AACS.

**R 408.52**

**Source:** 1998-2000 AACS.

**PART 6. DEFINITIONS**

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**R 408.59**

**Source:** 1984 AACs.

**SKI AREA SAFETY BOARD**

**GENERAL RULES**

**R 408.61**

**Source:** 2007 AACs.

**R 408.62 Motorized vehicle use policy.**

Rule 2.(1) Ski area operators shall comply with all of the following with regard to the use of motorized vehicles on ski slopes, runs or trails open to the public:

(a) Ski areas shall have a written policy that addresses all of the following:

(i) The training required for anyone to operate an authorized vehicle on open ski slopes, runs, or trails. The training program shall be developed in consultation with the National Ski Areas Association's publication entitled "Snowmobile Operations Resource Guide, December 2005." The publication is available for purchase from the National Ski Areas Association, Member Services, 133 S. Van Gordon Street, Suite 300, Lakewood, CO 60226, Phone: (303) 987-1111, at a price of \$10.00 for members or \$50.00 for non-members. The publication may be viewed by appointment at the offices of the Bureau of Commercial Services, 2501 Woodlake Circle, Okemos, Michigan 48864, Phone: (517) 241-9228.

(ii) The recommended routes for motorized vehicles to follow when used on open ski slopes, runs, or trails.

(iii) The circumstances under which a motorized vehicle may be used on open ski slopes, runs, or trails.

(iv) The circumstances under which the alarm required in subrule (2)(d) of this rule must be utilized.

(b) Report to the department within 24 hours any injury or fatality involving a motorized vehicle on a ski slope, run, or trail.

(c) Prohibit the use of privately owned motorized vehicles in areas open to skiers.

(2) Motorized vehicles operated on ski slopes, runs, or trails that are open to the public shall be equipped with all of the following:

(a) Lights and brakes as required pursuant to MCL 324.82122.

(b) For vehicles measuring less than 6 feet in height above the snow, a florescent flag measuring at least 40 square inches mounted at least 6 feet above the bottom of the tracks and visible from 360 degrees.

(c) A flashing or rotating red light conspicuously located on the vehicle, which must be operated while the vehicle is moving in the vicinity of a ski slope, run, or trail.

(d) An audible alarm capable of producing a minimum warning sound of 85 decibels to alert skiers or bystanders.

(3) Operators of motorized vehicles on ski slopes, runs, or trails shall comply with the following:

(a) Operate a vehicle at a rate of speed not greater than is reasonable for the conditions and as required pursuant to MCL 324.82126a and MCL 324.82126b.

(b) Be at least 18 years of age, possess a valid driver's license, and have completed mandatory training provided by the ski area that includes the safe use of motorized vehicles on ski slopes, runs, or trails when skiers are present, as established in the written policy required in rule 408.62(1)(a).

(c) Whenever possible, a vehicle operated on ski slopes, runs, or trails shall give skiers and pedestrians the right-of-way.

History: 2008 MR 18, Eff. Sept. 25, 2008.

**R 408.65**

**Source:** 2007 AACs.

**R 408.66**

**Source:** 1997 AACs.

**R 408.68**

**Source:** 1997 AACs.

**R 408.69**

**Source:** 1997 AACs.

**R 408.70**

**Source:** 1998-2000 AACs.

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- R 408.71**  
Source: 1997 AACS.
- R 408.75**  
Source: 1998-2000 AACS.
- R 408.76**  
Source: 1998-2000 AACS.
- R 408.77**  
Source: 1998-2000 AACS.
- R 408.78**  
Source: 1998-2000 AACS.
- R 408.79**  
Source: 1989 AACS.
- R 408.80**  
Source: 1998-2000 AACS.
- R 408.81**  
Source: 1998-2000 AACS.
- R 408.82**  
Source: 1998-2000 AACS.
- R 408.83**  
Source: 1989 AACS.
- R 408.90**  
Source: 1989 AACS.
- R 408.91**  
Source: 1997 AACS.
- R 408.92**  
Source: 1989 AACS.
- R 408.94**  
Source: 1979 AC.
- R 408.95**  
Source: 1979 AC.

**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**

**BUREAU OF SAFETY AND REGULATION**

**OCCUPATIONAL HEALTH STANDARDS COMMISSION**

**MINE SAFETY**

- Rule 408.121**  
Source: 1998-2000 AACS.
- Rule 408.122**  
Source: 1998-2000 AACS.

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**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**

**OCCUPATIONAL HEALTH STANDARDS COMMISSION**

**ABANDONED AND IDLE MINES**

**R 408.171**  
Source: 1998-2000 AACS.

**R 408.172**  
Source: 1998-2000 AACS.

**R 408.174**  
Source: 1998-2000 AACS.

**R 480.175**  
Source: 1998-2000 AACS.

**R 408.176**  
Source: 1998-2000 AACS.

**R 408.177**  
Source: 1998-2000 AACS.

**R 408.178**  
Source: 1998-2000 AACS.

**R 408.179**  
Source: 1998-2000 AACS.

**R 408.180**  
Source: 1998-2000 AACS.

**BUREAU OF SAFETY AND REGULATION**

**EMPLOYMENT OF MINORS**

**R 408.201**  
Source: 1997 AACS.

**R 408.202**  
Source: 1997 AACS.

**R 408.203**  
Source: 1997 AACS.

**R 408.204**  
Source: 1997 AACS.

**R 408.205**  
Source: 1997 AACS.

**R 408.206**  
Source: 1997 AACS.

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**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**

**BUREAU OF SAFETY AND REGULATION**

**OCCUPATIONAL HEALTH STANDARDS COMMISSION**

**OXYGEN SUPPLY EQUIPMENT**

**R 408.491**

**Source:** 1998-2000 AACS.

**R 408.492**

**Source:** 1998-2000 AACS.

**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**

**OCCUPATIONAL HEALTH STANDARDS COMMISSION**

**HEARINGS**

**R 408.501**

**Source:** 1998-2000 AACS.

**R 408.502**

**Source:** 1998-2000 AACS.

**R 408.503**

**Source:** 1998-2000 AACS.

**R 408.504**

**Source:** 1998-2000 AACS.

**R 408.505**

**Source:** 1998-2000 AACS.

**R 408.506**

**Source:** 1998-2000 AACS.

**BUREAU OF EMPLOYMENT STANDARDS**

**GENERAL RULES**

**PART 1. GENERAL PROVISIONS**

**R 408.701**

**Source:** 1998-2000 AACS.

**R 408.702**

**Source:** 1998-2000 AACS.

**R 408.703**

**Source:** 1998-2000 AACS.

**R 408.704**

**Source:** 1998-2000 AACS.

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**R 408.705**  
**Source:** 1998-2000 AACS.

**R 408.706**  
**Source:** 1998-2000 AACS.

**PART 2. OVERTIME COMPENSATION**

**R 408.721**  
**Source:** 1998-2000 AACS.

**R 408.722**  
**Source:** 1998-2000 AACS.

**R 408.723**  
**Source:** 1998-2000 AACS.

**R 408.724**  
**Source:** 1998-2000 AACS.

**R 408.725**  
**Source:** 1998-2000 AACS.

**R 408.726**  
**Source:** 1998-2000 AACS.

**R 408.727**  
**Source:** 1998-2000 AACS.

**R 408.728**  
**Source:** 1998-2000 AACS.

**R 408.729**  
**Source:** 1998-2000 AACS.

**R 408.730**  
**Source:** 1998-2000 AACS.

**R 408.731**  
**Source:** 1997 AACS.

**R 408.732**  
**Source:** 1997 AACS.

**R 408.733**  
**Source:** 1998-2000 AACS.

**R 408.734**  
**Source:** 1998-2000 AACS.

**R 408.735**  
**Source:** 1998-2000 AACS.

**DIRECTOR OF LABOR AND WAGE DEVIATION BOARD**  
**CERTIFICATES FOR SHELTERED WORKSHOPS AND**  
**EMPLOYMENT OF HANDICAPPED WORKERS**



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**R 408.751**  
Source: 1997 AACS.

**R 408.752**  
Source: 1997 AACS.

**R 408.753**  
Source: 1997 AACS.

**R 408.754**  
Source: 1997 AACS.

**R 408.755**  
Source: 1997 AACS.

**R 408.756**  
Source: 1997 AACS.

**R 408.757**  
Source: 1997 AACS.

**R 408.758**  
Source: 1997 AACS.

**R 408.759**  
Source: 1997 AACS.

**R 408.760**  
Source: 1997 AACS.

**R 408.761**  
Source: 1997 AACS.

**R 408.762**  
Source: 1997 AACS.

**R 408.763**  
Source: 1997 AACS.

**R 408.764**  
Source: 1997 AACS.

**BUREAU OF EMPLOYMENT STANDARDS**  
**WAGE DEVIATION**

**R 408.771**  
Source: 1983 AACS.

**R 408.772**  
Source: 1983 AACS.

**R 408.773**  
Source: 1983 AACS.

**R 408.774**  
Source: 1983 AACS.

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**R 408.775**  
**Source:** 1983 AACS.

**R 408.776**  
**Source:** 1983 AACS.

**R 408.777**  
**Source:** 1983 AACS.

**R 408.778**  
**Source:** 1983 AACS.

**R 408.779**  
**Source:** 1983 AACS.

**R 408.780**  
**Source:** 1983 AACS.

**R 408.781**  
**Source:** 1983 AACS.

**R 408.782**  
**Source:** 1983 AACS.

**R 408.783**  
**Source:** 1983 AACS.

**R 408.784**  
**Source:** 1983 AACS.

**R 408.785**  
**Source:** 1983 AACS.

**R 408.786**  
**Source:** 1983 AACS.

**R 408.787**  
**Source:** 1983 AACS.

**DIRECTOR'S OFFICE**  
**CARNIVAL AND AMUSEMENT RIDES**

**PART 1. GENERAL PROVISIONS**

**R 408.801**  
**Source:** 2003 AACS.

**R 408.802**  
**Source:** 2007 AACS.

**R 408.803**  
**Source:** 2003 AACS.

**R 408.805**  
**Source:** 1997 AACS.

**R 408.806**

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**Source:** 2007 AACs.

**R 408.807**

**Source:** 1997 AACs.

**R 408.809**

**Source:** 1997 AACs.

**R 408.811**

**Source:** 1997 AACs.

**R 408.813**

**Source:** 2003 AACs.

**R 408.814**

**Source:** 2003 AACs.

**R 408.815**

**Source:** 1997 AACs.

**R 408.816**

**Source:** 1983 AACs.

**R 408.817**

**Source:** 1996 AACs.

**R 408.819**

**Source:** 1983 AACs.

**PART 2. DESIGN, CONSTRUCTION, AND OPERATION**

**R 408.821**

**Source:** 2003 AACs.

**R 408.822**

**Source:** 1997 AACs.

**R 408.824**

**Source:** 1983 AACs.

**R 408.825**

**Source:** 1983 AACs.

**R 408.826**

**Source:** 1983 AACs.

**R 408.827**

**Source:** 1983 AACs.

**R 408.828**

**Source:** 1983 AACs.

**R 408.829**

**Source:** 1983 AACs.

**R 408.830**

**Source:** 1983 AACs.

**R 408.831**

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**Source:** 1983 AACS.

**R 408.832**

**Source:** 1983 AACS.

**R 408.833**

**Source:** 2007 AACS.

**R 408.834**

**Source:** 2003 AACS.

**R 408.835**

**Source:** 1983 AACS.

**R 408.837**

**Source:** 2003 AACS.

**R 408.838**

**Source:** 2003 AACS.

**R 408.839**

**Source:** 1996 AACS.

**R 408.839a**

**Source:** 2003 AACS.

**R 408.841**

**Source:** 2003 AACS.

**R 408.843**

**Source:** 2003 AACS.

**R 408.844**

**Source:** 2003 AACS.

**R 408.846**

**Source:** 1983 AACS.

**R 408.848**

**Source:** 1996 AACS.

**R 408.849**

**Source:** 1983 AACS.

**R 408.851**

**Source:** 1983 AACS.

**R 408.852**

**Source:** 2007 AACS.

**R 408.854**

**Source:** 1983 AACS.

**R 408.856**

**Source:** 1983 AACS.

**PART 3. PROCEDURES**

**R 408.871**

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**Source:** 1983 AACS.

**R 408.872**

**Source:** 1983 AACS.

**R 408.873**

**Source:** 1983 AACS.

**R 408.874**

**Source:** 1983 AACS.

**R 408.876**

**Source:** 2003 AACS.

**R 408.877**

**Source:** 2003 AACS.

**R 408.881**

**Source:** 2003 AACS.

**R 408.882**

**Source:** 2007 AACS.

**R 408.885**

**Source:** 2003 AACS.

**R 408.886**

**Source:** 2003 AACS.

**R 408.887**

**Source:** 2003 AACS.

**PART 4. PARTICIPATORY RIDES—GO-KARTS**

**R 408.891**

**Source:** 2007 AACS.

**R 408.891a**

**Source:** 1998-2000 AACS.

**R 408.893**

**Source:** 1998-2000 AACS.

**R 408.895**

**Source:** 1998-2000 AACS.

**R 408.897**

**Source:** 1998-2000 AACS.

**PART 5. SIGNS AND SAFETY WARNINGS**

**R 408.898**

**Source:** 2003 AACS.

**PART 39. HEARING PROCEDURES**

**R 408.3901**

**Source:** 1979 AC.

**R 408.3902**

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Source: 1979 AC.

**R 408.3903**

Source: 1979 AC.

**R 408.3904**

Source: 1979 AC.

**R 408.3905**

Source: 1979 AC.

**R 408.3906**

Source: 1979 AC.

**R 408.3907**

Source: 1979 AC.

**R 408.3911**

Source: 1979 AC.

**BOILERS**

**PART 1. GENERAL PROVISIONS**

**R 408.4001**

Source: 1979 AC.

**R 408.4011**

Source: 1998-2000 AACS.

**R 408.4012**

Source: 2006 AACS.

**R 408.4013**

Source: 1998-2000 AACS.

**R 408.4015**

Source: 1998-2000 AACS.

**R 408.4017**

Source: 1998-2000 AACS.

**R 408.4019**

Source: 1998-2000 AACS.

**R 408.4021**

Source: 1998-2000 AACS.

**R 408.4023**

Source: 1998-2000 AACS.

**R 408.4024**

Source: 2006 AACS.

**R 408.4025**

Source: 2006 AACS.

**R 408.4026**

Source: 1998-2000 AACS.

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**R 408.4027**  
Source: 2006 AACS.

**R 408.4028**  
Source: 2006 AACS.

**R 408.4029**  
Source: 1979 AC.

**R 408.4031**  
Source: 2006 AACS.

**R 408.4032**  
Source: 2006 AACS.

**R 408.4033**  
Source: 2006 AACS.

**R 408.4035**  
Source: 1995 AACS.

**R 408.4036**  
Source: 1979 AC.

**R 408.4038**  
Source: 2007 AACS.

**R 408.4039**  
Source: 2006 AACS.

**R 408.4043**  
Source: 1997 AACS.

**R 408.4045**  
Source: 2006 AACS.

**R 408.4047**  
Source: 2006 AACS.

**R 408.4049**  
Source: 1981 AACS.

**R 408.4051**  
Source: 1981 AACS.

**R 408.4052**  
Source: 2002 AACS.

**R 408.4053**  
Source: 1997 AACS.

**R 408.4055**  
Source: 1998-2000 AACS.

**R 408.4057**  
Source: 2006 AACS.

**R 408.4058**

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Source: 2006 AACS.

**R 408.4059**

Source: 2006 AACS.

**R 408.4061**

Source: 1997 AACS.

**R 408.4063**

Source: 1997 AACS.

**R 408.4065**

Source: 2006 AACS.

**R 408.4067**

Source: 1979 AC.

**R 408.4069**

Source: 1979 AC.

**R 408.4071**

Source: 1995 AACS.

**R 408.4073**

Source: 2006 AACS.

**R 408.4075**

Source: 1995 AACS.

**R 408.4077**

Source: 2002 AACS.

**R 408.4079**

Source: 1981 AACS.

**R 408.4081**

Source: 1995 AACS.

**R 408.4087**

Source: 2002 AACS.

**R 408.4089**

Source: 1979 AC.

**R 408.4091**

Source: 2006 AACS.

**R 408.4093**

Source: 2002 AACS.

**R 408.4095**

Source: 1997 AACS.

**R 408.4096**

Source: 2006 AACS.

**R 408.4099**

Source: 2002 AACS.



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**R 408.4101**  
Source: 2002 AACS.

**R 408.4103**  
Source: 2006 AACS.

**R 408.4105**  
Source: 1981 AACS.

**R 408.4107**  
Source: 2007 AACS.

**R 408.4109**  
Source: 2002 AACS.

**R 408.4110**  
Source: 1997 AACS.

**R 408.4111**  
Source: 2002 AACS.

**R 408.4113**  
Source: 1997 AACS.

**R 408.4114**  
Source: 2006 AACS.

**R 408.4115**  
Source: 2002 AACS.

**R 408.4116**  
Source: 2002 AACS.

**R 408.4017**  
Source: 1979 AC.

**R 408.4119**  
Source: 2006 AACS.

**R 408.4120**  
Source: 2006 AACS.

**R 408.4121**  
Source: 2006 AACS.

**R 408.4122**  
Source: 2002 AACS.

**R 408.4123**  
Source: 1981 AACS.

**R 408.4124**  
Source: 2002 AACS.

**R 408.4125**  
Source: 2007 AACS.

**R 408.4127**

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**Source:** 2006 AACS.

**R 408.4129**

**Source:** 2002 AACS.

**R 408.4131**

**Source:** 1979 AC.

**R 408.4133**

**Source:** 2006 AACS.

**R 408.4139**

**Source:** 2006 AACS.

**R 408.4143**

**Source:** 1981 AACS.

**R 408.4149**

**Source:** 2002 AACS.

**R 408.4151**

**Source:** 1979 AC.

**R 408.4153**

**Source:** 2002 AACS.

**R 408.4155**

**Source:** 1979 AC.

**R 408.4157**

**Source:** 1979 AC.

**R 408.4159**

**Source:** 1997 AACS.

**R 408.4161**

**Source:** 1979 AC.

**R 408.4163**

**Source:** 2006 AACS.

**R 408.4165**

**Source:** 1979 AC.

**R 408.4167**

**Source:** 1979 AC.

**R 408.4169**

**Source:** 1995 AACS.

**R 408.4171**

**Source:** 1979 AC.

**R 408.4172**

**Source:** 1995 AACS.

**R 408.4173**

**Source:** 2002 AACS.

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**R 408.4174**  
Source: 1997 AACS.

**R 408.4175**  
Source: 2002 AACS.

**R 408.4177**  
Source: 2006 AACS.

**R 408.4179**  
Source: 2002 AACS.

**R 408.4181**  
Source: 1997 AACS.

**R 408.4182**  
Source: 2006 AACS.

**R 408.4183**  
Source: 1997 AACS.

**R 408.4184**  
Source: 1997 AACS.

**R 408.4185**  
Source: 1995 AACS.

**R 408.4186**  
Source: 1995 AACS.

**R 408.4187**  
Source: 2002 AACS.

**R 408.4189**  
Source: 2002 AACS.

**R 408.4191**  
Source: 1997 AACS.

**R 408.4193**  
Source: 2002 AACS.

**R 408.4195**  
Source: 1998-2000 AACS.

**R 408.4197**  
Source: 2006 AACS.

**PART 2. EXISTING INSTALLATIONS**  
**STEAM BOILERS**

**R 408.4201**  
Source: 1979 AC.

**R 408.4202**  
Source: 1979 AC.

**R 408.4203**  
Source: 1979 AC.

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- R 408.4205**  
Source: 1979 AC.
- R 408.4206**  
Source: 1979 AC.
- R 408.4207**  
Source: 1979 AC.
- R 408.4208**  
Source: 1979 AC.
- R 408.4210**  
Source: 1979 AC.
- R 408.4212**  
Source: 1979 AC.
- R 408.4214**  
Source: 1995 AACS.
- R 408.4215**  
Source: 1979 AC.
- R 408.4216**  
Source: 1979 AC.
- R 408.4217**  
Source: 1979 AC.
- R 408.4218**  
Source: 1979 AC.
- R 408.4219**  
Source: 1979 AC.
- R 408.4220**  
Source: 1979 AC.
- R 408.4222**  
Source: 1979 AC.
- R 408.4223**  
Source: 1979 AC.
- R 408.4225**  
Source: 1979 AC.
- R 408.4230**  
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- R 408.4232**  
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- R 408.4235**  
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- R 408.4236**  
Source: 1979 AC.
- R 408.4240**  
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- R 408.4241**  
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- R 408.4255**  
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- R 408.4257**  
Source: 1979 AC.
- R 408.4258**  
Source: 1979 AC.
- R 408.4259**  
Source: 1979 AC.
- R 408.4260**  
Source: 1979 AC.
- R 408.4263**  
Source: 1979 AC.
- R 408.4265**  
Source: 1979 AC.
- R 408.4267**  
Source: 1979 AC.
- R 408.4268**  
Source: 1979 AC.
- R 408.4269**  
Source: 1979 AC.
- R 408.4270**  
Source: 1985 AACS.

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- R 408.4274**  
Source: 1979 AC.
- R 408.4275**  
Source: 1997 AACCS.
- R 408.4277**  
Source: 1979 AC.
- R 408.4278**  
Source: 1979 AC.
- R 408.4280**  
Source: 1979 AC.
- R 408.4281**  
Source: 1979 AC.
- R 408.4283**  
Source: 1979 AC.
- R 408.4284**  
Source: 1979 AC.
- R 408.4286**  
Source: 1979 AC.
- R 408.4287**  
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- R 408.4288**  
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- R 408.4290**  
Source: 1979 AC.
- R 408.4291**  
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- R 408.4292**  
Source: 1979 AC.
- R 408.4293**  
Source: 1979 AC.
- R 408.4294**  
Source: 1979 AC.
- R 408.4296**  
Source: 1979 AC.
- R 408.4298**  
Source: 1979 AC.

**PART 3. INSPECTION AND TESTING FOR NEW CONSTRUCTION;  
INSTALLATION AND ALTERATION OF BOILERS AND PIPING**

- R 408.4301**

**Annual Administrative Code Supplement**  
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**Source:** 2002 AACS.

**R 408.4302**

**Source:** 2006 AACS.

**R 408.4303**

**Source:** 2006 AACS.

**R 408.4304**

**Source:** 2006 AACS.

**R 408.4306**

**Source:** 1997 AACS.

**R 408.4309**

**Source:** 1997 AACS.

**R 408.4312**

**Source:** 1997 AACS.

**R 408.4315**

**Source:** 1997 AACS.

**R 408.4318**

**Source:** 1997 AACS.

**R 408.4321**

**Source:** 1997 AACS.

**R 408.4324**

**Source:** 1997 AACS.

**R 408.4327**

**Source:** 1997 AACS.

**R 408.4330**

**Source:** 1997 AACS.

**R 408.4333**

**Source:** 1997 AACS.

**R 408.4336**

**Source:** 1997 AACS.

**R 408.4339**

**Source:** 1997 AACS.

**R 408.4342**

**Source:** 1997 AACS.

**R 408.4345**

**Source:** 1997 AACS.

**R 408.4348**

**Source:** 1997 AACS.

**R 408.4351**

**Source:** 1997 AACS.

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**R 408.4354**  
Source: 1997 AACS.

**R 408.4357**  
Source: 1997 AACS.

**R 408.4360**  
Source: 1997 AACS.

**R 408.4363**  
Source: 1997 AACS.

**R 408.4366**  
Source: 1997 AACS.

**R 408.4369**  
Source: 1997 AACS.

**R 408.4372**  
Source: 1997 AACS.

**R 408.4375**  
Source: 1997 AACS.

**R 408.4378**  
Source: 1997 AACS.

**R 408.4381**  
Source: 1997 AACS.

**R 408.4384**  
Source: 1997 AACS.

**R 408.4387**  
Source: 1997 AACS.

**R 408.4390**  
Source: 1997 AACS.

**R 408.4393**  
Source: 1997 AACS.

**R 408.4396**  
Source: 1997 AACS.

**PART 4. INSPECTION OF FUSION WELDING**

**R 408.4401**  
Source: 1997 AACS.

**R 408.4402**  
Source: 1997 AACS.

**R 408.4405**  
Source: 1997 AACS.

**R 408.4407**  
Source: 1997 AACS.



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**R 408.4409**  
Source: 1997 AACS.

**R 408.4410**  
Source: 1997 AACS.

**R 408.4412**  
Source: 1997 AACS.

**R 408.4414**  
Source: 1997 AACS.

**R 408.4416**  
Source: 1997 AACS.

**R 408.4418**  
Source: 1997 AACS.

**R 408.4420**  
Source: 1997 AACS.

**R 408.4422**  
Source: 1997 AACS.

**R 408.4424**  
Source: 1997 AACS.

**R 408.4426**  
Source: 1997 AACS.

**R 408.4428**  
Source: 1997 AACS.

**R 408.4430**  
Source: 1997 AACS.

**R 408.4432**  
Source: 1997 AACS.

**R 408.4434**  
Source: 1997 AACS.

**R 408.4436**  
Source: 1997 AACS.

**R 408.4438**  
Source: 1997 AACS.

**R 408.4440**  
Source: 1997 AACS.

**R 408.4442**  
Source: 1997 AACS.

**R 408.4444**  
Source: 1997 AACS.

**R 408.4446**

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**Source:** 1997 AACS.

**R 408.4448**

**Source:** 1997 AACS.

**R 408.4450**

**Source:** 1997 AACS.

**R 408.4452**

**Source:** 1997 AACS.

**R 408.4454**

**Source:** 1997 AACS.

**R 408.4456**

**Source:** 1997 AACS.

**R 408.4458**

**Source:** 1997 AACS.

**R 408.4460**

**Source:** 1997 AACS.

**R 408.4462**

**Source:** 1997 AACS.

**R 408.4466**

**Source:** 1997 AACS.

**R 408.4468**

**Source:** 1997 AACS.

**R 408.4470**

**Source:** 1997 AACS.

**R 408.4472**

**Source:** 1997 AACS.

**R 408.4474**

**Source:** 1997 AACS.

**R 408.4476**

**Source:** 1997 AACS.

**R 408.4478**

**Source:** 1997 AACS.

**R 408.4480**

**Source:** 1997 AACS.

**R 408.4482**

**Source:** 1997 AACS.

**R 408.4484**

**Source:** 1997 AACS.

**R 408.4486**

**Source:** 1997 AACS.

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**R 408.4488**  
Source: 1997 AACS.

**R 408.4489**  
Source: 1997 AACS.

**R 408.4490**  
Source: 1997 AACS.

**R 408.4491**  
Source: 1997 AACS.

**R 408.4492**  
Source: 1997 AACS.

**R 408.4493**  
Source: 1997 AACS.

**R 408.4494**  
Source: 1997 AACS.

**R 408.4495**  
Source: 1997 AACS.

**R 408.4496**  
Source: 1997 AACS.

**R 408.4497**  
Source: 1997 AACS.

**R 408.4498**  
Source: 1997 AACS.

**R 408.4499**  
Source: 1997 AACS.

**PART 5. INSERVICE INSPECTION OF BOILERS**

**R 408.4501**  
Source: 2002 AACS.

**R 408.4502**  
Source: 2001 AACS.

**R 408.4503**  
Source: 2006 AACS.

**R 408.4505**  
Source: 1998-2000 AACS.

**R 408.4507**  
Source: 2006 AACS.

**R 408.4510**  
Source: 2006 AACS.

**R 408.4511**  
Source: 2006 AACS.

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- R 408.4512**  
Source: 2006 AACS.
- R 408.4513**  
Source: 1998-2000 AACS.
- R 408.4515**  
Source: 1998-2000 AACS.
- R 408.4517**  
Source: 1998-2000 AACS.
- R 408.4518**  
Source: 2006 AACS.
- R 408.4520**  
Source: 1979 AC.
- R 408.4522**  
Source: 1995 AACS.
- R 408.4524**  
Source: 1998-2000 AACS.
- R 408.4526**  
Source: 1998-2000 AACS.
- R 408.4529**  
Source: 1998-2000 AACS.
- R 408.4531**  
Source: 1998-2000 AACS.
- R 408.4534**  
Source: 1998-2000 AACS.
- R 408.4536**  
Source: 1998-2000 AACS.
- R 408.4538**  
Source: 1998-2000 AACS.
- R 408.4540**  
Source: 1997 AACS.
- R 408.4542**  
Source: 1997 AACS.
- R 408.4545**  
Source: 1998-2000 AACS.
- R 408.4547**  
Source: 1998-2000 AACS.
- R 408.4550**  
Source: 1998-2000 AACS.

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- R 408.4552**  
Source: 1997 AACS.
- R 408.4554**  
Source: 1998-2000 AACS.
- R 408.4556**  
Source: 1997 AACS.
- R 408.4559**  
Source: 1998-2000 AACS.
- R 408.4561**  
Source: 1998-2000 AACS.
- R 408.4566**  
Source: 2006 AACS.
- R 408.4569**  
Source: 1998-2000 AACS.
- R 408.4570**  
Source: 1995 AACS.
- R 408.4572**  
Source: 1998-2000 AACS.
- R 408.4575**  
Source: 1979 AC.
- R 408.4578**  
Source: 1998-2000 AACS.
- R 408.4580**  
Source: 1998-2000 AACS.
- R 408.4581**  
Source: 1979 AC.
- R 408.4583**  
Source: 1998-2000 AACS.
- R 408.4586**  
Source: 1998-2000 AACS.
- R 408.4590**  
Source: 1998-2000 AACS.

**PART 6. REPAIR OF BOILERS**  
**SCOPE OF RULES FOR REPAIR BY RIVETING**

- R 408.4601**  
Source: 2006 AACS.
- R 408.4602**  
Source: 2006 AACS.
- R 408.4603**  
Source: 2006 AACS.

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**R 408.4604**  
Source: 2006 AACCS.

**R 408.4605**  
Source: 2006 AACCS.

**R 408.4606**  
Source: 2006 AACCS.

**R 408.4607**  
Source: 2006 AACCS.

**R 408.4608**  
Source: 2006 AACCS.

**R 408.4609**  
Source: 2006 AACCS.

**R 408.4610**  
Source: 2006 AACCS.

**R 408.4611**  
Source: 2006 AACCS.

**R 408.4612**  
Source: 2006 AACCS.

**R 408.4613**  
Source: 2006 AACCS.

**R 408.4614**  
Source: 2006 AACCS.

**R 408.4615**  
Source: 2006 AACCS.

**R 408.4616**  
Source: 2006 AACCS.

**R 408.4617**  
Source: 2006 AACCS.

**R 408.4618**  
Source: 2006 AACCS.

**R 408.4619**  
Source: 2006 AACCS.

**R 408.4620**  
Source: 2006 AACCS.

**R 408.4622**  
Source: 2006 AACCS.

**R 408.4623**  
Source: 2006 AACCS.

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- R 408.4624**  
Source: 2006 AACCS.
- R 408.4625**  
Source: 2006 AACCS.
- R 408.4626**  
Source: 2006 AACCS.
- R 408.4627**  
Source: 2006 AACCS.
- R 408.4628**  
Source: 2006 AACCS.
- R 408.4627**  
Source: 1998-2000 AACCS.
- R 408.4628**  
Source: 1995 AACCS.
- R 408.4631**  
Source: 2006 AACCS.
- R 408.4633**  
Source: 1998-2000 AACCS.
- R 408.4635**  
Source: 1997 AACCS.
- R 408.4637**  
Source: 2006 AACCS.
- R 408.4639**  
Source: 1997 AACCS.
- R 408.4641**  
Source: 1997 AACCS.
- R 408.4643**  
Source: 1998-2000 AACCS.
- R 408.4645**  
Source: 1997 AACCS.
- R 408.4647**  
Source: 1998-2000 AACCS.
- R 408.4649**  
Source: 1998-2000 AACCS.
- R 408.4650**  
Source: 1998-2000 AACCS.
- R 408.4651**  
Source: 1998-2000 AACCS.
- R 408.4653**  
Source: 1997 AACCS.

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- R 408.4655**  
Source: 1997 AACS.
- R 408.4657**  
Source: 1997 AACS.
- R 408.4659**  
Source: 1998-2000 AACS.
- R 408.4660**  
Source: 2006 AACS.
- R 408.4661**  
Source: 1998-2000 AACS.
- R 408.4662**  
Source: 1997 AACS.
- R 408.4664**  
Source: 1997 AACS.
- R 408.4666**  
Source: 1997 AACS.
- R 408.4667**  
Source: 2006 AACS.
- R 408.4668**  
Source: 1998-2000 AACS.
- R 408.4670**  
Source: 1998-2000 AACS.
- R 408.4671**  
Source: 1998-2000 AACS.
- R 408.4672**  
Source: 1998-2000 AACS.
- R 408.4674**  
Source: 1997 AACS.
- R 408.4675**  
Source: 1998-2000 AACS.
- R 408.4676**  
Source: 1998-2000 AACS.
- R 408.4677**  
Source: 1997 AACS.
- R 408.4678**  
Source: 1997 AACS.
- R 408.4679**  
Source: 1997 AACS.
- R 408.4680**



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**Source:** 1998-2000 AACS.

**R 408.4682**

**Source:** 1998-2000 AACS.

**R 408.4683**

**Source:** 1998-2000 AACS.

**R 408.4684**

**Source:** 2001 AACS.

**R 408.4686**

**Source:** 2001 AACS.

**R 408.4687**

**Source:** 2001 AACS.

**R 408.4688**

**Source:** 2001 AACS.

**R 408.4689**

**Source:** 2006 AACS.

**R 408.4690**

**Source:** 2001 AACS.

**R 408.4691**

**Source:** 2001 AACS.

**R 408.4692**

**Source:** 1997 AACS.

**R 408.4693**

**Source:** 1998-2000 AACS.

**R 408.4694**

**Source:** 1998-2000 AACS.

**R 408.4695**

**Source:** 1998-2000 AACS.

**R 408.4696**

**Source:** 1997 AACS.

**R 408.4697**

**Source:** 1998-2000 AACS.

**PART 7. BOILER BLOWOFF SYSTEMS**

**R 408.4701**

**Source:** 2006 AACS.

**R 408.4704**

**Source:** 2006 AACS.

**R 408.4707**

**Source:** 2006 AACS.

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**R 408.4711**  
Source: 2006 AACs.

**R 408.4715**  
Source: 1997 AACs.

**R 408.4719**  
Source: 1997 AACs.

**R 408.4723**  
Source: 1997 AACs.

**R 408.4727**  
Source: 2006 AACs.

**R 408.4731**  
Source: 2006 AACs.

**R 408.4735**  
Source: 2006 AACs.

**R 408.4739**  
Source: 2006 AACs.

**R 408.4743**  
Source: 2006 AACs.

**R 408.4747**  
Source: 2006 AACs.

**R 408.4750**  
Source: 2006 AACs.

**R 408.4756**  
Source: 1997 AACs.

**R 408.4762**  
Source: 1997 AACs.

**R 408.4768**  
Source: 1997 AACs.

**R 408.4774**  
Source: 1997 AACs.

**R 408.4780**  
Source: 1997 AACs.

**R 408.4786**  
Source: 1997 AACs.

**R 408.4792**  
Source: 1997 AACs.

**R 408.4798**  
Source: 1997 AACs.

**PART 8. CONTROLS**

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**R 408.4801**  
Source: 2006 AACS.

**FUEL CUTOFFS AND FEEDWATER REGULATORS**

**R 408.4851**  
Source: 2006 AACS.

**R 408.4853**  
Source: 2006 AACS.

**R 408.4856**  
Source: 2006 AACS.

**R 408.4857**  
Source: 1998-2000 AACS.

**R 408.4859**  
Source: 1997 AACS.

**R 408.4861**  
Source: 1997 AACS.

**R 408.4863**  
Source: 1997 AACS.

**R 408.4865**  
Source: 1997 AACS.

**R 408.4869**  
Source: 1997 AACS.

**R 408.4871**  
Source: 1997 AACS.

**R 408.4873**  
Source: 1997 AACS.

**R 408.4876**  
Source: 1997 AACS.

**R 408.4879**  
Source: 1997 AACS.

**R 408.4882**  
Source: 1997 AACS.

**R 408.4885**  
Source: 1997 AACS.

**R 408.4888**  
Source: 1997 AACS.

**R 408.4890**  
Source: 1997 AACS.

**R 408.4893**

**Annual Administrative Code Supplement**  
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**Source:** 2006 AACS.

**PART 9. LOW-PRESSURE SIDE OF REDUCING VALVES**

**R 408.4901**  
**Source:** 1997 AACS.

**R 408.4910**  
**Source:** 1997 AACS.

**R 408.4920**  
**Source:** 1997 AACS.

**R 408.4930**  
**Source:** 1997 AACS.

**R 408.4940**  
**Source:** 1997 AACS.

**R 408.4950**  
**Source:** 1997 AACS.

**R 408.4960**  
**Source:** 1997 AACS.

**R 408.4970**  
**Source:** 1997 AACS.

**R 408.4980**  
**Source:** 1997 AACS.

**R 408.4990**  
**Source:** 1997 AACS.

**PART 15. HEARINGS**

**R 408.5501**  
**Source:** 1995 AACS.

**R 408.5502**  
**Source:** 1997 AACS.

**R 408.5503**  
**Source:** 1997 AACS.

**R 408.5504**  
**Source:** 1997 AACS.

**R 408.5505**  
**Source:** 1997 AACS.

**R 408.5506**  
**Source:** 1997 AACS.

**R 408.5507**  
**Source:** 1997 AACS.

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**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**

**BUREAU OF SAFETY AND REGULATION**

**OCCUPATIONAL SAFETY STANDARDS COMMISSION**

**GENERAL RULES**

**R 408.6171**

**Source:** 1998-2000 AACS.

**BUREAU OF EMPLOYMENT STANDARDS**

**YOUTH EMPLOYMENT STANDARDS**

**PART 1. GENERAL PROVISIONS**

**R 408.6199**

**Source:** 1988 AACS.

**PART 2. HAZARDOUS OCCUPATIONS IN GENERAL EMPLOYMENT**

**R 408.6201**

**Source:** 1988 AACS.

**R 408.6202**

**Source:** 2003 AACS.

**R 408.6203**

**Source:** 2006 AACS.

**R 408.6204**

**Source:** 1988 AACS.

**R 408.6205**

**Source:** 1988 AACS.

**R 408.6206**

**Source:** 2006 AACS.

**R 408.6207**

**Source:** 1988 AACS.

**R 408.6208**

**Source:** 2006 AACS.

**R 408.6209**

**Source:** 1988 AACS.

**PART 3. DEVIATIONS FROM ESTABLISHED STANDARDS OR FROM  
LEGAL HOURS OF EMPLOYMENT FOR 16- AND 17-YEAR-OLD MINORS**

**R 408.6301**

**Source:** 1988 AACS.

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**R 408.6302**  
Source: 2006 AACS.

**R 408.6303**  
Source: 2006 AACS.

**R 408.6304**  
Source: 2003 AACS.

**R 408.6305**  
Source: 1988 AACS.

**R 408.6306**  
Source: 1988 AACS.

**R 408.6307**  
Source: 1988 AACS.

**R 408.6308**  
Source: 1988 AACS.

**R 408.6309**  
Source: 2006 AACS.

**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**

**DIRECTOR'S OFFICE**

**ELEVATORS**

**CHAPTER 1. GENERAL PROVISIONS**

**R 408.7001**  
Source: 2003 AACS.

**R 408.7002**  
Source: 2005 AACS.

**R 408.7003**  
Source: 2005 AACS.

**R 408.7004**  
Source: 2003 AACS.

**R 408.7005**  
Source: 2003 AACS.

**R 408.7006**  
Source: 2003 AACS.

**R 408.7007**  
Source: 2003 AACS.

**R 408.7008**  
Source: 2003 AACS.

**R 408.7009**  
Source: 2003 AACS.

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**R 408.7010**  
**Source:** 2003 AACS.

**R 408.7011**  
**Source:** 2003 AACS.

**R 408.7012**  
**Source:** 2003 AACS.

**R 408.7013**  
**Source:** 2003 AACS.

**R 408.7014**  
**Source:** 2003 AACS.

**R 408.7015**  
**Source:** 2003 AACS.

**R 408.7016**  
**Source:** 2003 AACS.

**R 408.7017**  
**Source:** 2003 AACS.

**R 408.7018**  
**Source:** 2003 AACS.

**R 408.7019 Fees.**

Rule 19. (1) Fees shall be paid in accordance with the following schedule:

Commissions to inspect elevators	
Commission .....	\$50.00.
Commission renewal .....	\$50.00.

Examination for certificates of competency	
Certificate of competency examination (nonrefundable) .....	\$50.00.

Elevator contractors and journeyperson examination and licenses	
Elevator contractor's license and renewal (nonrefundable) .....	\$100.00.
Elevator contractor's examination (nonrefundable) .....	\$100.00.
Elevator journeyperson license and renewal (nonrefundable) .....	\$40.00.
Elevator journeyperson examination (nonrefundable) .....	\$100.00.

Installation permits	
Elevator installation application fee (nontransferable and nonrefundable) .....	\$60.00.
Base permit fee for each of the following devices: .....	\$200.00.

Passenger elevator  
Freight elevator  
Mine elevator  
Inclined elevator  
Limited-use/limited application elevator  
Private residence elevator  
Private residence inclined elevator  
Special purpose personnel elevator  
Dumbwaiter  
Material lift  
Power sidewalk elevator

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Rooftop Elevator  
Belt manlift  
Special elevating device

For the above installations, an additional \$25.00 is charged for each hoistway opening and for each floor traveled without a hoistway opening.

Escalator ..... \$240.00.  
Moving walk..... \$240.00.

Personnel hoist, initial inspection ..... \$340.00.  
Plus \$25.00 for each hoistway opening and for each floor traveled without a hoistway opening.

Private residence platform lift and private  
residence stairway chairlift ..... \$40.00.  
Platform lift and stairway chairlift in buildings other  
than private residence ..... \$70.00.

Major alteration permits  
Elevator alteration application fee (nontransferable and nonrefundable) ..... \$60.00.  
First alteration (including 1 final inspection)..... \$90.00.  
Each additional alteration ..... \$65.00.  
Personnel hoist tower rise ..... \$90.00.  
Plus \$25.00 for each added hoistway opening and for each floor traveled without a hoistway opening.  
Maximum alteration fee (includes \$60.00 nontransferable and nonrefundable application fee) ..... \$395.00.

(2) A final inspection fee is included in the installation and alteration permit fee. If a scheduled final inspection is canceled without 24 hours notice to the department, or if the elevator is not complete in the judgment of the general elevator inspector, then an additional fee shall be charged to the elevator contractor as follows:

- (a) \$300.00 for private residence elevator, dumbwaiter, platform lift, or stairway chairlift.
- (b) \$500.00 for all other devices.

(3) A written request for a refund on a permit must be made within 1 year from the application date. An issued permit shall become invalid unless the work on the site authorized by such permit is commenced within 180 days after issuance, or if the work authorized on the site by such permit is suspended or abandoned for a period of 180 days after work is commenced. A 1-time 180-day permit extension shall automatically be granted when a building permit for the same project remains valid.

Certificate of operation  
Biennial and annual certificate of operation ..... \$45.00.  
Temporary certificate of operation ..... \$200.00.

Inspection by general inspector  
Biennial inspection for devices complying with R 408.7011(b)..... \$110.00.

Annual inspection for all other devices ..... \$125.00.  
Plus \$5.00 for each hoistway opening and for each floor traveled without a hoistway opening.

Temporary certificate of operation inspection ..... \$125.00.  
Plus \$5.00 for each hoistway opening and for each floor traveled without a hoistway opening.

Reinspection or correction order follow-up for devices complying with R 408.7011(b) ..... \$110.00.  
Reinspection or correction order follow-up for all other devices ..... \$125.00.

(4) The department may provide, upon written request, special services that are not otherwise covered in the fee structure. The charge for this service shall be at the rate of \$100.00 per hour including travel time.

Fees that are required pursuant to the provisions of the act shall be paid to the department. Checks or money orders shall be made payable to the "State of Michigan."

History: 2003 AACCS; 2005 AACCS; 2008 MR 9, Eff. July 7, 2008



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**R 408.7020**  
Source: 2003 AACS.

**R 408.7021**  
Source: 2003 AACS.

**R 408.7022**  
Source: 2003 AACS.

**R 408.7023**  
Source: 2003 AACS.

**R 408.7024**  
Source: 2005 AACS.

**R 408.7025**  
Source: 2003 AACS.

**CHAPTER 2. ALL ELEVATORS**

**R 408.7026**  
Source: 2003 AACS.

**R 408.7027**  
Source: 2003 AACS.

**R 408.7028**  
Source: 2003 AACS.

**R 408.7029**  
Source: 2003 AACS.

**R 408.7030**  
Source: 2003 AACS.

**R 408.7031**  
Source: 2003 AACS.

**CHAPTER 3. ASME A17.1 MODIFICATIONS**

**R 408.7032**  
Source: 2005 AACS.

**R 408.7033**  
Source: 2003 AACS.

**R 408.7034**  
Source: 2003 AACS.

**R 408.7035**  
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**R 408.7036**  
Source: 2003 AACS.

**R 408.7037**  
Source: 2003 AACS.

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**R 408.7037a**  
Source: 2005 AACCS.

**R 408.7038**  
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**R 408.7039**  
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**R 408.7040**  
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**R 408.7042**  
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**R 408.7044**  
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**R 408.7046**  
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**R 408.7051**  
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**R 408.7052**  
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**R 408.7053**  
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**R 408.7054**  
Source: 2005 AACCS.

**R 408.7054a**  
Source: 2005 AACCS.

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**R 408.7055**  
Source: 2003 AACS.

**R 408.7056**  
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**R 408.7057**  
Source: 2003 AACS.

**R 408.7058**  
Source: 2005 AACS.

**R 408.7059**  
Source: 2003 AACS.

**R 408.7060**  
Source: 2005 AACS.

**CHAPTER 4. ASME A18.1 MODIFICATIONS**

**R 408.7061**  
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**R 408.7062**  
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**R 408.7063**  
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**R 408.7066**  
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**R 408.7067**  
Source: 2003 AACS.

**R 408.7068**  
Source: 2003 AACS.

**CHAPTER 5. ASME A90-1 MODIFICATIONS**

**R 408.7069**  
Source: 2005 AACS.

**CHAPTER 6. ANSI A10.4 MODIFICATIONS**

**R 408.7070**  
Source: 2005 AACS.

**R 408.7071**  
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**R 408.7072**

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Source: 2003 AACS.

**R 408.7073**

Source: 2003 AACS.

**R 408.7074**

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**R 408.7075**

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**R 408.7076**

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**R 408.7080**

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**R 408.7081**

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**CHAPTER 7. SEWER LIFT STATION PERSONNEL ELEVATORS**

**R 408.7082**

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**R 408.7083**

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**R 408.7086**

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**Source:** 2003 AACS.

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**R 408.8111**

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**R 408.8123**

**Source:** 2003 AACS.

**R 408.8124**

**Source:** 2003 AACS.

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**R 408.8131**  
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**R 408.8132**  
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**R 408.8133**  
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**R 408.8134**  
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**R 408.8161**  
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**R 408.8171**  
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**R 408.8191**  
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**R 408.8201**  
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**R 408.8202**  
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**R 408.8203**  
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**R 408.8205**  
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**R 408.8206**  
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**R 408.8226**  
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**R 408.8644**  
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**R 408.8648**  
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**R 408.8662**  
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**R 408.8695**  
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**PAYMENT OF WAGES AND FRINGE BENEFITS**

**R 408.9001**  
Source: 1998-2000 AACS.

**R 408.9002**  
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**R 408.9003**  
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**R 408.9004**  
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**R 408.9019**  
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**R 408.9020**  
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**R 408.9021**  
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**R 408.9022**  
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**R 408.9033**  
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**R 408.9034**  
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**R 408.9035**  
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**GENERAL INDUSTRY SAFETY STANDARDS**

**PART 1. GENERAL PROVISIONS**

**R 408.10001**  
Source: 1979 AC.

**R 408.10003**  
Source: 1993 AACS.

**R 408.10004**  
Source: 1979 AC.

**R 408.10005**  
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- R 408.10011**  
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- R 408.10012**  
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- R 408.10013**  
Source: 1979 AC.
- R 408.10015**  
Source: 1988 AACS.
- R 408.10016**  
Source: 1983 AACS.
- R 408.10017**  
Source: 1979 AC.
- R 408.10018**  
Source: 1981 AACS.
- R 408.10021**  
Source: 1979 AC.
- R 408.10022**  
Source: 1979 AC.
- R 408.10026**  
Source: 1979 AC.
- R 408.10031**  
Source: 1979 AC.
- R 408.10032**  
Source: 1997 AACS.
- R 408.10033**  
Source: 1993 AACS.
- R 408.10034**  
Source: 1979 AC.
- R 408.10036**  
Source: 1983 AACS.
- R 408.10037**  
Source: 1993 AACS.
- R 408.10051**  
Source: 1979 AC.
- R 408.10098**  
Source: 1993 AACS.

**PART 1A. ABRASIVE WHEELS**

- R 408.10101**  
Source: 1979 AC.
- R 408.10102**

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**Source:** 1990 AACS.

**R 408.10103**

**Source:** 1990 AACS.

**R 408.10104**

**Source:** 1979 AC.

**R 408.10105**

**Source:** 1990 AACS.

**R 408.10111**

**Source:** 1979 AC.

**R 408.10113**

**Source:** 1979 AC.

**R 408.10114**

**Source:** 1979 AC.

**R 408.10115**

**Source:** 1990 AACS.

**GUARDING PROVISIONS**

**R 408.10121**

**Source:** 1990 AACS.

**R 408.10122**

**Source:** 1979 AC.

**R 408.10123**

**Source:** 1979 AC.

**R 408.10124**

**Source:** 1990 AACS.

**R 408.10125**

**Source:** 1979 AC.

**R 408.10126**

**Source:** 1979 AC.

**R 408.10127**

**Source:** 1979 AC.

**R 408.10128**

**Source:** 1979 AC.

**R 408.10129**

**Source:** 1979 AC.

**R 408.10141**

**Source:** 1979 AC.

**R 408.10142**

**Source:** 1979 AC.

**R 408.10143**

**Source:** 1979 AC.



**MOUNTING PROVISIONS**

**R 408.10151**  
Source: 1979 AC.

**R 408.10152**  
Source: 1979 AC.

**R 408.10153**  
Source: 1979 AC.

**R 408.10154**  
Source: 1979 AC.

**R 408.10155**  
Source: 1979 AC.

**R 408.10156**  
Source: 1979 AC.

**R 408.10158**  
Source: 1979 AC.

**R 408.10159**  
Source: 1979 AC.

**SPEED PROVISIONS**

**R 408.10171**  
Source: 1997 AACS.

**R 408.10172**  
Source: 1997 AACS.

**R 408.10173**  
Source: 1990 AACS.

**R 408.10174**  
Source: 1990 AACS.

**R 408.10175**  
Source: 1990 AACS.

**SPECIAL SPEEDS**

**R 408.10177**  
Source: 1990 AACS.

**OPERATING PROVISIONS**

**R 408.10181**  
Source: 1990 AACS.

**R 408.10182**

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Source: 1979 AC.

**R 408.10183**

Source: 1979 AC.

**R 408.10184**

Source: 1979 AC.

**R 408.10185**

Source: 1979 AC.

**R 408.10186**

Source: 1990 AACS.

**R 408.10187**

Source: 1990 AACS.

**R 408.10198**

Source: 1990 AACS.

**R 408.10199**

Source: 1990 AACS.

**PART 2. FLOOR AND WALL OPENINGS, STAIRWAYS, AND SKYLIGHTS**

**R 408.10201**

Source: 1989 AACS.

**R 408.10205**

Source: 1979 AC.

**R 408.10206**

Source: 1989 AACS.

**R 408.10207**

Source: 1979 AC.

**R 408.10208**

Source: 1989 AACS.

**R 408.10211**

Source: 1979 AC.

**R 408.10213**

Source: 1979 AC.

**R 408.10215**

Source: 1979 AC.

**R 408.10217**

Source: 1989 AACS.

**R 408.10219**

Source: 1989 AACS.

**R 408.10220**

Source: 1979 AC.

**R 408.10221**

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**Source:** 1979 AC.

**R 408.10223**

**Source:** 1989 AACS.

**R 408.10227**

**Source:** 1979 AC.

**R 408.10228**

**Source:** 1989 AACS.

**R 408.10230**

**Source:** 1989 AACS.

**R 408.10231**

**Source:** 1989 AACS.

**R 408.10232**

**Source:** 1979 AC.

**R 408.10233**

**Source:** 1989 AACS.

**R 408.10235**

**Source:** 1989 AACS.

**R 408.10236**

**Source:** 1989 AACS.

**R 408.10237**

**Source:** 1989 AACS.

**R 408.10239**

**Source:** 1979 AC.

**R 408.10240**

**Source:** 1989 AACS.

**R 408.10241**

**Source:** 1979 AC.

**PART 3. FIXED LADDERS**

**R 408.10301**

**Source:** 1979 AC.

**R 408.10305**

**Source:** 1994 AACS.

**R 408.10306**

**Source:** 1994 AACS.

**R 408.10307**

**Source:** 1994 AACS.

**R 408.10308**

**Source:** 1994 AACS.

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- R 408.10310**  
Source: 1994 AACS.
- R 408.10311**  
Source: 1994 AACS.
- R 408.10321**  
Source: 1979 AC.
- R 408.10323**  
Source: 1994 AACS.
- R 408.10324**  
Source: 1994 AACS.
- R 408.10325**  
Source: 1979 AC.
- R 408.10326**  
Source: 1979 AC.
- R 408.10328**  
Source: 1979 AC.
- R 408.10331**  
Source: 1979 AC.
- R 408.10333**  
Source: 1994 AACS.
- R 408.10335**  
Source: 1979 AC.
- R 408.10341**  
Source: 1979 AC.
- R 408.10342**  
Source: 1994 AACS.
- R 408.10345**  
Source: 1994 AACS.
- R 408.10351**  
Source: 1998-2000 AACS.
- R 408.10352**  
Source: 1979 AC.
- R 408.10353**  
Source: 1979 AC.
- R 408.10354**  
Source: 1994 AACS.
- R 408.10355**  
Source: 1994 AACS.
- R 408.10357**  
Source: 1979 AC.

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- R 408.10361**  
Source: 1979 AC.
- R 408.10365**  
Source: 1982 AACS.
- R 408.10371**  
Source: 1994 AACS.
- R 408.10372**  
Source: 1994 AACS.

**PART 4. PORTABLE LADDERS**

- R 408.10401**  
Source: 1979 AC.
- R 408.10403**  
Source: 1981 AACS.
- R 408.10404**  
Source: 1979 AC.
- R 408.10406**  
Source: 1979 AC.
- R 408.10407**  
Source: 1982 AACS.
- R 408.10408**  
Source: 1979 AC.
- R 408.10413**  
Source: 1979 AC.
- R 408.10421**  
Source: 1979 AC.
- R 408.10422**  
Source: 1979 AC.
- R 408.10426**  
Source: 1997 AACS.
- R 408.10427**  
Source: 1981 AACS.
- R 408.10428**  
Source: 1981 AACS.
- R 408.10431**  
Source: 1982 AACS.
- R 408.10433**  
Source: 1979 AC.
- R 408.10441**  
Source: 1981 AACS.

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- R 408.10442**  
Source: 1979 AC.
- R 408.10443**  
Source: 1979 AC.
- R 408.10445**  
Source: 1979 AC.
- R 408.10446**  
Source: 1982 AACS.
- R 408.10447**  
Source: 1981 AACS.
- R 408.10451**  
Source: 1981 AACS.
- R 408.10452**  
Source: 1979 AC.
- R 408.10454**  
Source: 1979 AC.
- R 408.10456**  
Source: 1979 AC.

**PART 5. SCAFFOLDING**

**R 408.10501. Scope.**

Rule 501. (1) This part applies to scaffolds and the use of material and equipment in conjunction with scaffolding around or about places of employment.

(2) Powered and manual mobile elevating platforms and self-propelled vehicle mounted elevating and rotating platforms are not included in these rules but are provided for in general industry safety standard Part 58. "Aerial Work Platforms," R 408.15801 to R 408.15842.

History: 1979 AC; 2008 MR 11, Eff. June 18, 2008.

**R 408.10502. Applicability for powered platforms.**

Rule 502. (1) These rules apply to all new permanent installations for powered platforms and modifications to existing buildings that affect the structural integrity of the building exterior, tie-in guides and attachments, and the supporting structure for the powered platforms.

(2) Employers shall ensure compliance with these rules for any powered platform that is powered by a source other than electricity except for those rules that govern the electrical power source. The alternative power source shall be outfitted with protective devices that are equivalent to the protection that is provided by rules pertaining to an electrical power source.

(3) Scaffolds that are not covered by this part shall be as safe or safer for employees as scaffolds that are regulated by these rules.

(4) Permanent installations shall be in compliance with the provisions of 29 C.F.R. §1910.66, 'Powered Platforms, Manlifts, and Vehicle-Mounted Work Platforms Appendix D – Existing Installations (Mandatory). The following standards that are cited in 29 C.F.R. §1910.66, appendix D, are as follows and adopted by reference in R 408.40509.

(a) ANSI A120.1 - 1970 edition, entitled "Safety Requirements for Powered Platforms for Exterior Building Maintenance."

(b) Subpart S, referenced in 29 C.F.R. §1910.66(c)(22)(i), means general industry safety standard Part 39 'Design Safety Standards for Electrical Systems,' R 408.13901 to R 408.13902.

(c) ANSI A12.1 – 1967 edition, entitled "Safety Requirements for Floor and Wall Openings, Railings and Toeboard."

History: 1979 AC; 1992 AACS; 2008 MR 11, Eff. June 18, 2008.

- R 408.10503**  
Source: 1992 AACS.

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**R 408.10504**

Source: 1979 AC.

**R 408.10506**

Source: 1992 AACS.

**R 408.10507**

Source: 1992 AACS.

**R 408.10508**

Source: 1992 AACS.

**R 408.10509. Adoption of standards by reference; access to other MIOSHA rules.**

Rule 509. (1) The standards specified in this rule, except for the standards specified in subrule (2) of this rule, are adopted in these rules by reference.

(a) The following standards are available from IHS/Global Engineering Documents, 15 Inverness Way East, Englewood, Colorado, 80112, USA, telephone number: 1-800-854-7179 or via the internet at web-site: <http://global.ihs.com>; at a cost as of the time of adoption of these rules, as stated in this subrule:

(i) American National Society Institute Standard ANSI A120.1 'Safety Requirement for Powered Platforms for Exterior Building Maintenance,' 1970 edition, also known as American Society of Mechanical Engineers Standard ASME A120.1 'Safety Requirements Powered Platforms and Traveling Ladders and Gantries for Building Maintenance,' 1970 edition. Cost \$20.00

(ii) American National Society Institute Standard ANSI A12.1 'Safety Requirements for Floor and Wall Openings, Railings and Toeboard,' 1967 edition. Cost \$20.00.

(b) The Code of Federal Regulations, Title 29, Occupational Safety And Health Standard 1910.66 "Powered Platforms, Manlifts, And Vehicle-Mounted Work Platforms," Appendix D "Existing Installations (Mandatory)" is available from the U.S. Government Printing Office, Washington DC, 20402; telephone number (202) 512-1800 or through the GPO website - <http://bookstore.gpo.gov>. Cost. \$11.00.

(c) The standards adopted in subrule 1(a) and (b) of this rule are also available for inspection at the Department of Labor and Economic Growth, MIOSHA Standards Section, 7150 Harris Drive, P.O. Box 30643, Lansing, Michigan, 48909-8143.

(d) Copies of the standards adopted in subrule (1)(a) and (b) of this rule may be obtained from the publisher or may also be obtained from the Department of Labor and Economic Growth, MIOSHA Standards Section, 7150 Harris Drive, P.O. Box 30643, Lansing, Michigan, 48909-8143, at the cost charged in subrule (1)(a) and (b), of this rule, plus \$20 for shipping and handling.

(2) The following Michigan Occupational Safety and Health Standards are referenced in these rules. Up to 5 copies of these standards may be obtained at no charge from the Michigan Department of Labor and Economic Growth, MIOSHA Standards Section, 7150 Harris Drive, P.O. Box 30643, Lansing, Michigan, 48909-8143 or via the internet at web-site: [www.michigan.gov/mioshastandards](http://www.michigan.gov/mioshastandards). For quantities greater than 5, the cost, as of the time of adoption of these rules, is 4 cents per page.

(a) General Industry Safety Standard Part 2. Floor and Wall Openings, Stairways and Skylights, R 408.10201 to R 408.10241.

(b) General Industry Safety Standard Part 3. Fixed Ladders, R 408.10301 to R 408.10372.

(c) General Industry Safety Standard Part 4. Portable Ladders, R 408.10401 to R 408.10456.

(d) General Industry Safety Standard Part 7. Guards for Power Transmission, R 408.10701 to R 408.10765.

(e) General Industry Safety Standard Part 8. Portable Fire Extinguishers, R 408.10801 to R 408.10839.

(f) General Industry Safety Standard Part 21. Powered Industrial Trucks, R 408.12101 to R 408.12193.

(g) General Industry Safety Standard Part 33. Personal Protective Equipment, R 408.13301 to R 408.13398.

(h) General Industry Safety Standard Part 39. Design Safety Standards for Electrical Systems, R 408.13901 to R 408.13902.

(i) General Industry Safety Standard Part 58. Aerial Work Platforms, R 408.15801 to R 408.15842.

History: 2008 MR 11, Eff. June 18, 2008.

**R 408.10511. General requirements.**

Rule 511. (1) When required by this part, a safety belt, lanyard, and lifeline shall be provided to employees and used as prescribed in General Industry Safety Standard Part 33. "Personal Protective Equipment," R 408.13301 to R 408.13398.

(2) Except where a ladder, as prescribed in General Industry Safety Standard Part 4. "Portable Ladders," R 408.10401 to R 408.10456, or a self-propelled vehicle mounted elevating platform is furnished, an employee engaged in work that cannot

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be done safely from the ground or from solid construction shall be provided a scaffold from which to work or shall wear a safety harness and lifeline.

(3) A scaffold, part, or material used in scaffolding shall not be furnished or used if it has a defect, which would create a hazard to an employee. A scaffold damaged or weakened from any cause shall be repaired before use.

(4) A scaffold shall not be loaded to more than the designed working load.

(5) Materials being hoisted to a scaffold shall have a tag line when necessary to control the load.

(6) Tools, materials, and debris shall not be permitted to accumulate in a quantity to cause a hazard.

(7) Precautions shall be taken to protect scaffold members, including suspension ropes, when using a heat producing process.

(8) A lifeline and safety belt shall be used where an employee is required to crawl out on a thrust out or projecting beam.

(9) An employer shall not permit an employee to work on a scaffold outdoors during a storm or high wind, or on a scaffold covered with ice or snow, except when performing emergency service. When performing emergency service, safeguards such as, but not limited to, lanyards and safety belts shall be used by the employee.

(10) Scaffolding endangered by a truck or other moving equipment shall be protected by a warning device, or barrier, or both.

(11) A scaffold shall not be altered or moved horizontally while it is in use or is being occupied unless the scaffold is specifically designed for occupied horizontal travel.

(12) Fiber rope used for or near any work involving the use of corrosive substances or chemicals shall be treated or protected against deterioration.

History: 1979 AC; 1983 AACS; 2008 MR 11, Eff. June 18, 2008.

**R 408.10512**

**Source:** 1981 AACS.

**R 408.10513. Construction.**

Rule 513. (1) A scaffold and its components shall have a designed safety factor of not less than 4 with the load figure including the total weight of materials, men, and scaffold. Load-carrying timber members for scaffold framing shall be not less than 1500 fiber, stress grade, construction grade lumber.

(2) A scaffold, except a ladder scaffold, boatswain's chair, or needle beam scaffold, 10 feet or more above floor or ground level, shall have a standard barrier and toeboard pursuant to rules R 408.10231 and R 408.10233 of General Industry Safety Standard Part 2. "Floor and Wall Openings, Stairways, and Skylights." A life line and safety belt shall be used where a railing is required but not practical.

(3) A scaffold over a walk, aisle, or work area shall have the sides screened from toeboard to the top rail where an employee is required to work or pass under the scaffold.

(4) When work is being performed above a scaffold, overhead protection consisting of 2 inch planks laid tight, or equivalent material, shall be installed not more than 9 feet above the scaffold floor.

(5) Where access is not available directly from a structure, a wood scaffolding shall have a stair to the platform or portable ladder pursuant to General Industry Safety Standards Part 4. "Portable ladders," R 408.10401 to R 408.104560 or a fixed ladder pursuant to Part 3. "Fixed Ladders," R 408.10301 to R 408.10456, except that a cage is not mandatory for the fixed ladder. Use of a stair or fixed ladder shall not have a tendency to tip the scaffold.

(6) Manufactured scaffolding shall be equipped with a stair or a fixed ladder, mounted by a portable ladder, except that a cage is not mandatory for a fixed ladder. On manufactured scaffolding purchased after November 16, 1974, and equipped with a built-in fixed ladder or an attached scaffold ladder, the ladder shall be constructed of rungs not less than 12 inches long, uniformly spaced not less than 12 inches nor more than 16 1/2 inches from the center of 1 rung to another and the rung and component parts shall support a minimum of 300 pounds.

(7) Instead of the requirements for a stair, fixed ladder, or portable ladder, the intermediate horizontal members of a frame of a manufactured tubular welded frame scaffold may be used for access to, and egress from, the work platform if all of the following conditions are met:

(a) All frames and component parts are compatible in design.

(b) The intermediate horizontal members of a frame are a minimum of 16 inches in length.

(c) The horizontal members of each frame shall be uniformly spaced and shall not exceed 17 inches center to center vertically.

(d) When frames are connected vertically to one another, the distance between the bottom horizontal member of the upper end frame and the top horizontal member of the lower end frame shall be within 3 inches of the uniform spacing of the horizontal members of each frame.

(e) The elevation to the lowest horizontal member of the bottom frame shall not exceed 21 inches from ground or floor.



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(f) Each horizontal member shall be capable of supporting 300 pounds applied at the member's midpoint without bending or cracking.

(g) Each horizontal member shall be inspected for, and found free of cracks, bends, or bad welds.

(h) The guardrail system located on the side where horizontal members of the scaffold frame are used for access to or egress from, a work platform shall be constructed as follows:

(i) The intermediate rail shall be omitted between the corner posts at access location.

(ii) The top rail shall be continuous between posts.

(iii) Only 1 employee at a time shall use a horizontal member of a frame as access to, or egress from, the workstation.

(8) Footing for a scaffold shall be sound, rigid, and capable of supporting the maximum intended load without settling or displacement. Objects such as barrels, boxes, loose brick, or concrete blocks shall not be used.

(9) Poles, legs, or uprights of a scaffold shall be plumb and shall be secured or braced to prevent swaying or displacement.

(10) Load-carrying timber members of a scaffold shall be a minimum of 1500 fiber, stress grade, construction grade lumber.

(11) Construction and attachment of a scaffold shall be such that there is no direct pull on the fasteners.

History: 1979 AC; 1981 AACS; 1983 AACS; 2008 MR 11, Eff. June 18, 2008.

**R 408.10521**

**Source:** 1981 AACS.

**R 408.10524**

**Source:** 1981 AACS.

**R 408.10525**

**Source:** 1983 AACS.

**R 408.10526. Outrigger's scaffolds.**

Rule 526. (1) A thrustout for an outrigger scaffold shall be of timber 3 by 10 inches nominal, set on edge, or of structural steel of equal strength set with the web vertical. A thrustout shall extend outside the building not more than 6 feet, shall be spaced not ~~no~~ more than on 6 foot centers, and shall be fastened to prevent twisting or other movement. A thrustout shall be braced diagonally from the outside end to the building. The brace shall be not less than 25% longer than the extended length of the thrustout. The inboard end of outrigger beams, measured from the fulcrum point to the extreme point of support, shall be not less than 1 1/2 times the outboard end in length.

(2) A suspended platform shall be formed by use of 2 by 6 inch nominal vertical hangers and 2 by 6 inch nominal bearers. A vertical hanger shall be braced to prevent side sway and be not more than 10 feet long. Additional support blocks shall be nailed to the vertical hangers above the thrustouts and below the bearers. The inboard ends of outrigger beams shall be securely supported, either by means of struts bearing against sills in contact with the overhead beams or ceiling, or by means of tension members secured to the floor joist underfoot, or by both if necessary. The inboard ends of outrigger beams shall be secured against tipping, and the entire supporting structure shall be securely braced in both directions to prevent any horizontal movement.

(3) Planking for the platform shall abut edges tightly from end of thrustout to building or from vertical hanger to vertical hanger, and shall be as prescribed in R 408.10512.

(4) A standard barrier and toeboard shall be installed as prescribed in R 408.10231 and R 408.10233 of general industry safety standard Part 2. "Floor and Wall Openings, Stairways and Skylights."

(5) A horse scaffold shall not be used with an outrigger's scaffold.

(6) Outrigger scaffolds designed by a registered professional mechanical or civil engineer shall be constructed and erected in accordance with such design. A copy of the detailed drawings and specifications, showing the sizes and spacing of members, shall be kept on the job. Where additional working levels are required to be supported by the outrigger method, the plans and specifications of the outrigger and scaffolding structure shall be designed by a registered professional mechanical or civil engineer.

History: 1979 AC; 2008 MR 11, Eff. June 18, 2008.

**R 408.10527**

**Source:** 1981 AACS.

**R 408.10528. Ladder jack scaffolds.**

Rule 528. (1) A ladder jack scaffold shall be used on a Type 1, sometimes-called heavy duty, manufactured ladder only, and at heights not more than 20 feet from the ground or floor level.

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(2) The span of a wood plank shall be not more than 8 feet between ladder jacks, and the planking shall be as prescribed in R 408.10512.

(3) The span of a pick shall not exceed 24 feet.

(4) A ladder jack scaffold, shall be limited to 2 employees at any 1 time, except if 3 ladders support the plank 3 employees may occupy the plank. Not more than 2 employees shall occupy any given 8 feet of plank at any 1 time.

(5) A ladder used with a ladder jack shall be equipped with nonslip feet pursuant to R 108.10447 of the general industry safety standard, Part 4. "Portable Ladders," R 408.10401 to R 408.10456.

(6) A ladder jack shall be made of metal with a designed strength to sustain the load as prescribed in subrule (1) of R 408.10513. A ladder jack shall be designed to bear on the side rails in addition to the rungs, or if bearing on the rungs only, the bearing surface shall be not less than 10 lineal inches on each rung.

History: 1979 AC; 2008 MR 11, Eff. June 18, 2008.

**R 408.10529**

**Source:** 1983 AACS.

**R 408.10532. Working surfaces; steep slopes.**

Rule 532. (1) An employee working on a roof where the working area is more than 20 feet above the ground, the pitch is more than 3 inches in 12 inches, and there is no roof parapet, shall be provided and use a roofing bracket scaffold or crawling board.

(2) An employee using a roofing bracket scaffold or crawling board shall use a safety belt and lifeline or a catch platform shall be provided. The catch platform shall extend 2 feet beyond the projection of the eaves or structure, whichever is farther away, and shall be equipped with a standard barrier and toeboard as prescribed in R 408.10231 and R 408.10233 of general industry safety standard Part 2. "Floor and Wall Openings, Stairways, and Skylights."

History: 1979 AC; 1983 AACS; 2008 MR 11, Eff. June 18, 2008.

**R 408.10535**

**Source:** 1983 AACS.

**R 408.10542**

**Source:** 1981 AACS.

**R 408.10546. Powered and manual mobile elevating platforms.**

Rule 546. (a) Powered and manual mobile elevating platforms shall be operated as prescribed in general industry safety standard, Part 58. "Aerial Work Platforms," R 408.15801 to R 408.15842.

(b) Powered industrial trucks shall be operated as prescribed in general industry safety standard, Part 21. "Powered Industrial Trucks," R 408.12101 to R 408.12193.

History: 1979 AC; 2008 MR 11, Eff. June 18, 2008.

**R 408.10547 Rescinded.**

History: 2008 MR 11, Eff. June 18, 2008.

**POWERED PLATFORMS**

**R 408.10561. Construction and modification; requirements for buildings utilizing working platforms for maintenance; tie-in guides.**

Rule 561. (1) A powered platform installed, or that part of a powered platform modified, after August 27, 1971, shall be in compliance with the design and manufacturing requirements prescribed in ASME standard A120.1, 1970 edition, 'Safety requirements for powered platforms for exterior building maintenance, which is adopted in R 408.10509 by reference, and as further prescribed in the rules of this part.

(2) The following requirements apply to affected parts of buildings that utilize working platforms for building maintenance:

(a) Structural supports, tie-downs, tie-in guides, anchoring devices, and any affected parts of the building that are included in the installation shall be designed by, or under the direction of, a registered professional engineer who is experienced in such design.

(b) Exterior installations shall be capable of withstanding prevailing climatic conditions.

(c) The building installation shall provide safe access to, and egress from, the equipment and shall provide sufficient space

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to conduct necessary maintenance of the equipment.

(d) The affected parts of the building shall have the capability of sustaining all of the loads imposed by the equipment.

(e) The affected parts of the building shall be designed to allow the equipment to be used without exposing employees to a hazardous condition.

(3) The exterior of each building shall be provided with tie-in guides unless the conditions specified in either of the following provisions are met:

(a) Tie-in guides required pursuant to this rule may be eliminated for not more than 75 feet (22.9 m) of the uppermost elevation of the building if angulated roping is employed, if the use of tie-in guides is not feasible due to the exterior building design, and if an angulation force of not less than 10 pounds (44.4 n) is maintained under all conditions of loading.

(b) Tie-in guides may be eliminated if 1 of the specified guide systems is provided as specified in R 408.10562 and R 408.10563.

History: 1979 AC; 1981 AACS; 1983 AACS; 1992 AACS; 2008 MR 11, Eff. June 18, 2008.

**R 408.10562**

**Source:** 1992 AACS.

**R 408.10563**

**Source:** 1992 AACS.

**R 408.10564**

**Source:** 1992 AACS.

**R 408.10565. Roof cars; carriages; suspension methods.**

Rule 565. (1) A roof car shall be used when it is necessary to move a working platform horizontally to a work or storage position.

(2) Movements of a roof car shall be restricted to a designated path of travel. Mechanical stops shall be provided and shall prevent the roof car from traversing outside the intended path of travel. The stops shall be capable of withstanding a force equal to 100% of the inertial effect of the roof car under power and shall be designed to prevent a crushing or shearing hazard.

(3) Elevated building maintenance equipment shall be suspended by a roof car, carriage, outrigger, davits, or an equivalent method.

(4) Carriages or roof cars shall be in compliance with all of the following provisions:

(a) The horizontal movement of a carriage shall be controlled to ensure its safe movement and allow accurate positioning of the platform for vertical travel or storage.

(b) Powered carriages shall not exceed a traversing speed of 50 feet per minute (0.3 m/s).

(c) The initiation of a traversing movement for a manually propelled carriage on a smooth level surface shall not require a person to exert a horizontal force of more than 40 pounds (44.8 n).

(d) Structural stops and curbs shall be provided to prevent the traversing of the carriage beyond its designed limits of travel.

(e) Traversing controls for a powered carriage shall be of a continuous pressure weatherproof type. Multiple controls, when provided, shall be arranged to permit operation from only 1 control station at a time. An emergency stop device shall be provided on each end of a powered carriage for interrupting power to the carriage drive motors.

(f) The operating control or controls shall be connected so that, in the case of suspended equipment, traversing of a carriage is not possible until the suspended portion of the equipment is located at its uppermost designed position for traversing and is free of contact with the face of the building or building guides. All protective devices and interlocks shall be in the proper position to allow traversing of the carriage.

(g) Stability for underfoot supported carriages shall be obtained by gravity, by an attachment to a structural support, or by a combination of gravity and a structural support. The use of flowing counterweights to achieve stability is prohibited.

(h) The stability factor against overturning shall not be less than 5 for horizontal traversing of the carriage, including the effects of impact and wind.

(i) The carriages and their anchorages shall be capable of resisting accidental overtensioning of the wire ropes that suspend the working platform, and this calculated value shall include the effect of 1-112 times the stall capacity of the hoist motor. The forces that result from the stall load of the hoist and 112 of the wind load shall not cause damage to any part of the installation.

(j) Roof carriages that rely on having tie-down devices secured to the building to develop the required stability against overturning shall be provided with an interlock that will prevent vertical platform movement unless the tie-down is engaged.

(k) An automatically applied braking or locking system, or an equivalent, shall be provided that will prevent the

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unintentional traversing of power-traversed or power-assisted carriages.

(l) A manual or automatic braking or locking system, or an equivalent, shall be provided that will prevent the unintentional traversing of manually propelled carriages.

(m) A means to lock out the power supply for the carriage shall be provided.

(n) Safe access to, and egress from, the carriage shall be provided from a safe surface. If the carriage traverses an elevated area, any operating area on the carriage shall be protected by a guardrail system in compliance with general industry safety standard Part 2. "Floor and Wall Openings, Stairways, and Skylights," R 408.10201 to R 408.10241. Any access gate shall be self-closing and self-latching or shall be provided with an interlock.

(o) Each carriage work station position shall be identified by location markings or position indicators, or both.

(p) A motor shall stall if the load on the hoist motor is at any time more than 3 times that necessary for lifting the working platform with its rated load.

History: 1979 AC; 1992 AACs; 2008 MR 11, Eff. June 18, 2008.

**R 408.10566**

Source: 1992 AACs.

**R 408.10567**

Source: 1992 AACs.

**R 408.10568. Perimeter guarding; equipment stops; maintenance access: elevated track system walkway and guardrail system; platform access and egress safety; certain anchors, fasteners, and structures to be corrosion resistant; cable installation; emergency action plan; repairs or major maintenance to parts of building providing primary support.**

Rule 568. (1) Employees who work on roofs while performing building maintenance shall be protected by a perimeter guarding system that meets the requirements of general industry safety standard, Part 2. "Floor and Wall Openings, Stairways, and Skylights," R 408.10201 to R 408.10241.

(2) The perimeter guard shall not be more than 6 inches (152 mm) inboard of the inside face of a barrier, for example, the parapet wall, or roof edge curb of the building being serviced; however, the perimeter guard location shall not be set back more than 18 inches (457 mm) from the exterior building face.

(3) Operational areas for trackless type equipment shall be provided with structural stops, such as curbs, to prevent equipment from traveling outside its intended travel areas and to prevent a crushing or shearing hazard.

(4) Means shall be provided to traverse all carriages and their suspended equipment to a safe area for maintenance and storage. Maintenance shall be performed on equipment in a stored position when possible.

(5) An elevated track system which is located 4 feet (1.2 m) or more above a safe surface and which is traversed by carriage supported equipment shall be provided with a walkway and guardrail system or else the working platform shall be capable of being lowered, as part of its normal operation, to the lower safe surface for access and egress of the personnel and shall be provided with a safe means of access and egress to the lower safe surface.

(6) Imbedded tie-down anchors, fasteners, and affected structures shall be resistant to corrosion.

(7) Hanging lifelines and all cables that are not in tension shall be stabilized at 200-foot (61 m) intervals of vertical travel of the working platform beyond an initial 200-foot (61 m) distance.

(8) Hanging cables, other than suspended wire ropes, that are in constant tension shall be stabilized when the vertical travel is more than an initial 600-foot (183 m) distance. Beyond the initial 600 feet, cables shall be stabilized at intervals of 600 feet (183 m) or less.

(9) A written emergency action plan shall be developed and implemented for each kind of working platform operation. This plan shall explain the emergency procedures that are to be followed in the event of a power failure, equipment failure, or other emergencies which may be encountered. The plan shall include building emergency escape routes, procedures, and alarm systems to be used by each employee before operating a platform. Upon initial assignment and when the plan is changed, the employer shall review, with each employee, those parts of the plan that the employee is required to know in the event of an emergency.

(10) Repairs or major maintenance of those building portions that provide primary support for the suspended equipment shall not affect the capability of the building to be in compliance with the requirements of these rules.

History: 1992 AACs; 2008 MR 11, Eff. June 18, 2008.

**R 408.10569. Electrical requirements.**

Rule 569. The following electrical requirements apply to buildings that utilize working platforms for building maintenance:

(a) General building electrical installations shall be in compliance with the provisions of general industry safety standard

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Part 39. Design Safety Standards for Electrical Systems.

(b) Building electrical wiring shall be of such capacity that when a full load is applied to the equipment power circuit not more than a 5% drop from building service-vault voltage shall occur at any power circuit outlet that is used by equipment regulated by these rules.

(c) The equipment power circuit shall be an independent electrical circuit that shall remain separate from all other equipment within or on the building, other than power circuits that are used for hand tools which will be used in conjunction with the equipment. If the building has an emergency power system, the equipment power circuit may also be connected to this system.

(d) The power circuit shall be provided with a disconnect switch that can be locked in the "off" or "on" position. The switch shall be located to allow the operators of the equipment access to the switch.

(e) The disconnect switch for the power circuit shall be locked in the "on" position when the equipment is in use.

History: 1992 AACS; 2008 MR 11, Eff. June 18, 2008.

**R 408.10570**

**Source:** 1992 AACS.

**R 408.10571**

**Source:** 1992 AACS.

**R 408.10572**

**Source:** 1992 AACS.

**R 408.10573**

**Source:** 1992 AACS.

**R 408.10574**

**Source:** 1992 AACS.

**R 408.10575. Hoisting machines; suspended equipment; 2 and 4-point suspended working platforms; single-point suspended platforms; ground-rigged working platforms; intermittently stabilized platforms; button-guide stabilized platforms; supported equipment; suspension wire ropes and rope connections.**

Rule 575. (1) The raising and lowering of suspended or supported equipment shall be performed only by a hoisting machine.

(2) Each hoisting machine shall be capable of arresting any overspeed descent of the load.

(3) Each hoisting machine shall be powered only by air, electric, or hydraulic sources.

(4) Each hoisting machine shall be capable of raising or lowering 125% of the rated load of the hoist.

(5) Moving parts of a hoisting machine shall be enclosed or guarded in compliance with the provisions of general industry safety standard, Part 7. "Guards for Power Transmission,"-R 408.10701 to R 408.10765.

(6) Flammable liquids shall not be carried on the working platform.

(7) Winding drums, traction drums, and sheaves and directional sheaves that are used in conjunction with hoisting machines shall be sized for the wire rope that is used.

(8) Each winding drum shall be provided with a positive means of attaching the wire rope to the drum. The attachment shall be capable of developing not less than 4 times the rated load of the hoist.

(9) Each hoisting machine shall be provided with a primary brake and at least 1 independent secondary brake, each of which shall be capable of stopping and holding not less than 125% of the lifting capacity of the hoist. The primary brake shall be directly connected to the drivetrain of the hoisting machine and shall not be connected through belts, chains, clutches, or set screw-type devices. The brake shall automatically set when power to the prime mover is interrupted. The secondary brake shall be an automatic emergency type of brake that, if actuated during each stopping cycle, shall not engage before the hoist is stopped by the primary brake and shall stop and hold the platform within a vertical distance of 24 inches (609.6 mm).

(10) Any component of a hoisting machine that requires lubrication for its protection and proper functioning shall be provided with a means for that lubrication to be applied.

(11) All of the following provisions apply to suspended equipment:

(a) Each suspended unit component, except for suspension ropes and guardrail systems, shall be capable of supporting not less than 4 times the maximum intended live load applied or transmitted to that component.

(b) Each suspended unit component shall be constructed of materials that will withstand anticipated weather conditions.

(c) Each suspended unit shall be provided with a load rating plate which is conspicuously located and which states the unit weight and rated load of the suspended unit.

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(d) When the suspension points on a suspended unit are not at the unit ends, the unit shall be capable of remaining continuously stable under all conditions of use and position of the live load and shall maintain not less than a 1.5 to 1 stability factor against unit upset.

(e) Guide rollers, guide shoes, or building face rollers shall be provided and shall compensate for variations in building dimensions and for minor horizontal out-of-level variations of each suspended unit.

(f) Each working platform of a suspended unit shall be secured to the building facade by 1 or more of the following methods or by an equivalent method that is in compliance with the provisions of R 408.10561 and R 408.10562:

- (i) Continuous.
- (ii) Intermittent.
- (iii) Button guide engagement.
- (iv) Angulated roping.
- (v) Building face rollers.

(g) Each working platform of a suspended unit shall be provided with a guardrail system on all sides, which shall meet the requirements of general industry safety standard, Part 2. "Floor and Wall Openings, Stairways, and Skylights," R 408.10201 to R 408.10241. All of the following provisions apply to the guardrail system:

- (i) The system shall consist of a top guardrail, midrail, and toeboard.
- (ii) The top guardrail shall be not less than 42 inches high and shall be able to withstand not less than a 200- pound force in any downward or outward direction.
- (iii) The midrail shall be able to withstand not less than a 75-pound (333 n) force in any direction.
- (iv) The areas between the guardrail and toeboard on the ends and outboard side, and the area between the midrail and toeboard on the inboard side, shall be closed with a material that is capable of withstanding a load of 100 pounds (45.4 kg.) applied horizontally over any area of 1 square foot (.09 m<sup>2</sup>). All openings in the material shall be small enough to prevent the passage of lifelines and potential falling objects that may be hazardous to persons below.
- (v) Toeboards shall be capable of withstanding a force of not less than 50 pounds (222 n) applied in any direction at any point along the toeboard.
- (vi) Toeboards shall be not less than 4 inches in height from the top edge to the level of the platform floor.
- (vii) Toeboards shall be securely fastened in place at the outermost edge of the platform and have not more than 1/4 of an inch (1.3 cm) clearance above the platform.

(viii) Toeboards shall be solid or have an opening that is not more than 1 inch (2.5 cm) in the greatest dimension.

(12) All of the following provisions apply to a 2 and 4-point suspended working platform:

- (a) The working platform shall be not less than 24 inches (610 mm) wide and shall be provided with a minimum of a 12-inch (305 mm) wide passage at or past any obstruction on the platform.
- (b) The flooring shall be of a slip-resistant type and shall not have an opening that would allow the passage of lifelines, cables, and other potential falling objects.
- (c) The working platform shall be provided with a means of suspension that will restrict the platform from tilting more than 15 degrees in any direction.
- (d) Any cable that is suspended from above the platform shall be provided with a means for storage to prevent accumulation of the cable on the floor of the platform.
- (e) All operating controls for the vertical travel of the platform shall be of the continuous-pressure type and shall be located on the platform.
- (f) Each operating station of every working platform shall be provided with a means of interrupting the power supply to all hoist motors to stop any further powered ascent or descent of the platform.
- (g) The maximum rated speed of the platform shall not be more than 50 feet per minute (0.3 ms) for single-speed hoists and not more than 75 feet per minute (0.4 ms) for multispeed hoists.
- (h) All tools, water tanks, and other accessories shall be secured to prevent their movement or accumulation on the floor of the platform.
- (i) Portable fire extinguishers that are in compliance with the provisions of general industry safety standard, Part 8. "Portable Fire Extinguishers," R 408.10801 to R 408.10839, shall be provided and securely attached on all working platforms.

(j) Access to and egress from a working platform, except for those that land directly on a safe surface, shall be provided by stairs, ladders, platforms, and runways that are in compliance with the provisions of general industry safety standards, Part 2. "Floor and Wall Openings, Stairways, and Skylights," R 408.10201 to R 408.10241, and Part 4. "Portable Ladders," R 408.10401 to R 408.10456. Access gates shall be self-closing and self-latching.

(k) Means of access to or egress from a working platform that is 48 inches (1.2 m) or more above a safe surface shall be provided with a guardrail system or ladder-handrails that are in compliance with the provisions of general industry safety standards, Part 2. "Floor and Wall Openings, Stairways, and Skylights," R 408.10201 to R 408.10241, and Part 4. "Portable

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Ladders,” R 408.10401 to R 408.10456.

(l) The platform shall be provided with a secondary wire rope suspension system if the platform has overhead structures that restrict the emergency egress of employees. A horizontal lifeline or a direct connection anchorage shall be provided as part of a fall arrest system. The system shall be in compliance with the requirements of general industry safety standard Part 33. “Personal Protective Equipment,” R 408.10331 to R 408.13398.

(m) A vertical lifeline shall be provided as part of a fall arrest system. The system shall be in compliance with the requirements of general industry safety standard Part 33. “Personal Protective Equipment,” R 408.10331 to R 408.10398, for each employee on a working platform that is suspended by 2 or more wire ropes if the failure of 1 wire rope or suspension attachment will cause the platform to upset. If a secondary wire rope suspension is used, vertical lifelines are still required for the fall arrest system.

(n) An emergency electric operating device shall be provided on roof-powered platforms near the hoisting machine for use in the event of failure of the normal operating device that is located on the working platform or failure of the cable that is connected to the platform. The emergency electric operating device shall be mounted in a secured compartment and the compartment shall be labeled with instructions for use. A means for opening the compartment shall be mounted on a break-glass receptacle that is located near the emergency electric operating device or in an equivalent secure accessible location.

(13) Both of the following provisions apply to a single-suspended working platform:

(a) The requirements of R 408.10575(12)(a) to (k) shall also apply to a single-point working platform.

(b) Each single-point suspended working platform shall be provided with a secondary wire rope suspension system that will prevent the working platform from falling if there is a failure of the primary means of support or if the platform contains overhead structures that restrict the egress of the employees. A horizontal lifeline or a direct connection anchorage that meets the requirements of appendix c shall be provided, as part of a fall arrest system that is in compliance with the requirements of general industry safety standard Part 33. “Personal Protective Equipment,” R 408.13301 to R 408.13398, for each employee on the platform.

(14) Both of the following provisions apply to a ground-rigged working platform:

(a) The working platform shall be in compliance with all of the requirements of R 408.10575(12)(a) to (k).

(b) After each day's use, the power supply within the building shall be disconnected from a ground-rigged working platform, and the platform shall be either disengaged from its suspension points or secured and stored at grade.

(15) All of the following provisions apply to an intermittently stabilized platform:

(a) The platform shall be in compliance with the requirements of R 408.10575(12)(a) to ~~the~~ (m).

(b) Each stabilizer tie shall be equipped with a quick-connect/quick-disconnect device which cannot be accidentally disengaged, which is for attachment to the building anchor, and which is resistant to adverse environmental conditions.

(c) The platform shall be provided with a stopping device that will interrupt the hoist power supply if the platform contacts a stabilizer tie during its ascent.

(d) Building face rollers shall not be placed at the anchor setting if exterior anchors are used on the building face.

(e) Stabilizer ties that are used on intermittently stabilized platforms shall allow for the specific attachment length that is needed to effect the predetermined angulation of the suspended wire rope. The specific attachment length shall be maintained at all building anchor locations.

(f) The platform shall be in continuous contact with the face of the building during ascent and descent.

(g) The attachment and removal of stabilizer ties shall not require the horizontal movement of the platform.

(h) The platform-mounted equipment and its suspension wire ropes shall not be physically damaged by the loads from the stabilizer tie or its building anchor. The platform, platform-mounted equipment, and wire ropes shall be able to withstand a load that is not less than twice the ultimate strength of the stabilizer tie.

(16) All of the following provisions apply to a button-guide stabilized platform:

(a) The platform shall be in compliance with the requirements of R 408.10575(12)(a) to (m).

(b) Each guide track on the platform shall engage a minimum of 2 guide buttons during any vertical travel of the platform after the initial button engagement.

(c) Each guide track on a platform that is part of a roof-rigged system shall be provided with a storage position on the platform.

(d) Each guide track on the platform shall be sufficiently maneuverable by platform occupants to permit easy engagement of the guide buttons and easy movement into and out of the guide track's storage position on the platform.

(e) Two guide tracks shall be mounted on the platform and shall provide continuous contact with the building face.

(f) The load-carrying components of the button guide stabilization system that transmit the load into the platform shall be capable of supporting the weight of the platform or provision shall be made in the guide track connectors or platform attachments to prevent the weight of the platform from being transmitted to the platform attachments.

(17) All of the following provisions apply to supported equipment:

(a) Supported equipment shall maintain a vertical position in respect to the face of the building by means other than friction.

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(b) Cog wheels or equivalent means shall be incorporated to provide climbing traction between the supported equipment and the building guides. Additional guide wheels or shoes shall be incorporated as may be necessary to ensure that the drive wheels are continuously held in positive engagement with the building guides.

(c) Launch guide mullions which are indexed to the building guides and which are retained in alignment with the building guides shall be used to align drive wheels that enter the building guides.

(d) Manned platforms that are used on supported equipment shall be in compliance with the requirements of R 408.10575(12)(a), (b), and (d) to ~~the~~ (k) with respect to suspended equipment.

(18) All of the following provisions apply to suspension wire ropes and rope connections:

(a) Each specific installation shall use suspension wire ropes or combination cable and connections that are in compliance with the specifications recommended by the manufacturer of the hoisting machine that is used. Connections shall be capable of developing not less than 80% of the rated breaking strength of the wire rope.

(b) Each suspension rope shall have a design factor of not less than 10. The design factor is the ratio of the rated strength of the suspension wire rope to the rated working load and shall be calculated using the following formula:

$$f = \frac{s(n)}{w}$$

where:  $f$  = design factor

$S$  = manufacturer's rated strength of 1 suspension rope.

$n$  = number of suspension ropes under 1 load

$W$  = rated working load on all ropes at any point of travel.

(c) Suspension wire rope grade shall be at least improved plow steel or equivalent.

(d) Suspension wire ropes shall be sized to be in compliance with the required design factor, but shall not be less than 5/16 of an inch (7.94 mm) in diameter.

(e) A reverse bend in wire rope shall not be permitted.

(f) A bend radius in wire rope shall not be less than 20 times the wire rope diameter.

(g) Wire rope shall be inspected and maintained as specified in the provisions of R 408.10582.

History: 1992 AACS; 2008 MR 11, Eff. June 18, 2008.

**R 408.10576**

Source: 1992 AACS.

**R 408.10577**

Source: 1992 AACS.

**R 408.10578**

Source: 1992 AACS.

**R 408.10579**

Source: 1992 AACS.

**R 408.10580**

Source: 1992 AACS.

**R 408.10581**

Source: 1992 AACS.

**WIRE, FIBER, AND SYNTHETIC ROPE**

**R 408.10582**

Source: 1992 AACS.

**R 408.10583**

Source: 1992 AACS.

**R 408.10584**

Source: 1992 AACS.

**R 408.10585**



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**Source:** 1992 AACS.

**R 408.10586**

**Source:** 1992 AACS.

**R 408.10587**

**Source:** 1992 AACS.

**R 408.10588**

**Source:** 1992 AACS.

**R 408.10589**

**Source:** 1992 AACS.

**R 408.10590**

**Source:** 1992 AACS.

**R 408.10591**

**Source:** 1992 AACS.

**R 408.10592. Personal fall protection.**

Rule 592. Employees on working platforms shall be protected by a personal fall arrest system that is in compliance with the requirements of general industry safety standard Part 33. "Personal Protective Equipment," R 408.13301 to R 408.13398.  
History: 1992 AACS; 2008 MR 11, Eff. June 18, 2008.

**PART 6. FIRE EXITS**

**GENERAL PROVISIONS**

**R 408.10601**

**Source:** 1990 AACS.

**R 408.10602**

**Source:** 1979 AC.

**R 408.10603**

**Source:** 1990 AACS.

**R 408.10604**

**Source:** 1990 AACS.

**R 408.10605**

**Source:** 1990 AACS.

**R 408.10608**

**Source:** 1990 AACS.

**R 408.10611**

**Source:** 1990 AACS.

**R 408.10612**

**Source:** 1979 AC.

**R 408.10613**

**Source:** 1979 AC.

**R 408.10614**

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**Source:** 1979 AC.

**CLASSES OF OCCUPANCY AND HAZARD OF CONTENTS**

**R 408.10621**  
**Source:** 1990 AACS.

**R 408.10622**  
**Source:** 1979 AC.

**R 408.10623**  
**Source:** 1993 AACS.

**R 408.10624**  
**Source:** 1993 AACS.

**MEANS OF EGRESS**

**R 408.10631**  
**Source:** 1979 AC.

**R 408.10632**  
**Source:** 1979 AC.

**R 408.10633**  
**Source:** 1979 AC.

**R 408.10635**  
**Source:** 1979 AC.

**R 408.10634**  
**Source:** 1990 AACS.

**R 408.10636**  
**Source:** 1990 AACS.

**R 408.10637**  
**Source:** 1979 AC.

**R 408.10638**  
**Source:** 1979 AC.

**R 408.10639**  
**Source:** 1990 AACS.

**R 408.10641**  
**Source:** 1979 AC.

**R 408.10643**  
**Source:** 1979 AC.

**R 408.10644**  
**Source:** 1990 AACS.

**R 408.10645**  
**Source:** 1990 AACS.

**R 408.10646**

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**Source:** 1979 AC.

**R 408.10647**

**Source:** 1990 AACCS.

**R 408.10651**

**Source:** 1979 AC.

**R 408.10661**

**Source:** 1979 AC.

**R 408.10664**

**Source:** 1990 AACCS.

**R 408.10667**

**Source:** 1979 AC.

**R 408.10671**

**Source:** 1979 AC.

**R 408.10672**

**Source:** 1979 AC.

**R 408.10673**

**Source:** 1979 AC.

**R 408.10674**

**Source:** 1979 AC.

**R 408.10675**

**Source:** 1979 AC.

**R 408.10677**

**Source:** 1979 AC.

**R 408.10679**

**Source:** 1998-2000 AACCS.

**R 408.10681**

**Source:** 1979 AC.

**R 408.10682**

**Source:** 1979 AC.

**R 408.10685**

**Source:** 1979 AC.

**R 408.10686**

**Source:** 1979 AC.

**R 408.10691**

**Source:** 1979 AC.

**R 408.10692**

**Source:** 1979 AC.

**R 408.10693**

**Source:** 1979 AC.

**R 408.10694**

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**Source:** 1979 AC.

**R 408.10695**

**Source:** 1990 AACS.

**R 408.10696**

**Source:** 1979 AC.

**R 408.10697**

**Source:** 1979 AC.

**PART 7. GUARDS FOR POWER TRANSMISSION**

**R 408.10701**

**Source:** 1979 AC.

**R 408.10703**

**Source:** 1982 AACS.

**R 408.10704**

**Source:** 1979 AC.

**R 408.10711**

**Source:** 1982 AACS.

**R 408.10712**

**Source:** 1982 AACS.

**R 408.10713**

**Source:** 1982 AACS.

**R 408.10714**

**Source:** 1997 AACS.

**R 408.10715**

**Source:** 1982 AACS.

**R 408.10716**

**Source:** 1982 AACS.

**R 408.10721**

**Source:** 1982 AACS.

**R 408.10722**

**Source:** 1982 AACS.

**R 408.10723**

**Source:** 1979 AC.

**R 408.10725**

**Source:** 1982 AACS.

**R 408.10726**

**Source:** 1982 AACS.

**R 408.10727**

**Source:** 1982 AACS.

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- R 408.10728**  
Source: 1979 AC.
- R 408.10729**  
Source: 1979 AC.
- R 408.10730**  
Source: 1982 AACS.
- R 408.10731**  
Source: 1982 AACS.
- R 408.10732**  
Source: 1979 AC.
- R 408.10734**  
Source: 1982 AACS.
- R 408.10736**  
Source: 1979 AC.
- R 408.10738**  
Source: 1979 AC.
- R 408.10741**  
Source: 1982 AACS.
- R 408.10743**  
Source: 1979 AC.
- R 408.10744**  
Source: 1982 AACS.
- R 408.10751**  
Source: 1979 AC.
- R 408.10752**  
Source: 1979 AC.
- R 408.10753**  
Source: 1982 AACS.
- R 408.10754**  
Source: 1982 AACS.
- R 408.10757**  
Source: 1997 AACS.
- R 408.10761**  
Source: 1979 AC.
- R 408.10763**  
Source: 1982 AACS.
- R 408.10765**  
Source: 1979 AC.

**PART 8. PORTABLE FIRE EXTINGUISHERS**

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**GENERAL PROVISIONS**

**R 408.10801**  
Source: 1984 AACS.

**R 408.10803**  
Source: 2006 AACS.

**R 408.10804**  
Source: 1979 AC.

**R 408.10805**  
Source: 1979 AC.

**R 408.10807**  
Source: 2006 AACS.

**R 408.10808**  
Source: 1979 AC.

**R 408.10811**  
Source: 2006 AACS.

**R 408.10812**  
Source: 1979 AC.

**R 408.10813**  
Source: 2006 AACS.

**R 408.10814**  
Source: 1980 AACS.

**DISTRIBUTION**

**R 408.10821**  
Source: 1979 AC.

**R 408.10822**  
Source: 2006 AACS.

**R 408.10823**  
Source: 1980 AACS.

**R 408.10824**  
Source: 1979 AC.

**R 408.10825**  
Source: 1979 AC.

**R 408.10826**  
Source: 2006 AACS.

**R 408.10831**  
Source: 1979 AC.

**R 408.10833**  
Source: 2006 AACS.

**R 408.10836**

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**Source:** 2006 AACS.

**R 408.10837**

**Source:** 1979 AC.

**R 408.10839**

**Source:** 1984 AACS.

**PART 9. FIXED FIRE EQUIPMENT**

**GENERAL PROVISIONS**

**R 408.10901**

**Source:** 1984 AACS.

**R 408.10902**

**Source:** 1979 AC.

**R 408.10903**

**Source:** 1984 AACS.

**R 408.10905**

**Source:** 1979 AC.

**R 408.10907**

**Source:** 1979 AC.

**R 408.10911**

**Source:** 1979 AC.

**R 408.10912**

**Source:** 1979 AC.

**R 408.10913**

**Source:** 1984 AACS.

**R 408.10914**

**Source:** 1979 AC.

**R 408.10916**

**Source:** 1979 AC.

**R 408.10917**

**Source:** 1979 AC.

**R 408.10919**

**Source:** 1984 AACS.

**R 408.10920**

**Source:** 1984 AACS.

**AUTOMATIC SPRINKLER SYSTEMS**

**R 408.10921**

**Source:** 1984 AACS.

**R 408.10923**

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**Source:** 1979 AC.

**R 408.10924**

**Source:** 1979 AC.

**R 408.10925**

**Source:** 1984 AACS.

**R 408.10926**

**Source:** 1984 AACS.

**R 408.10927**

**Source:** 1979 AC.

**R 408.10928**

**Source:** 1984 AACS.

**STANDPIPE AND HOSE SYSTEMS**

**R 408.10931**

**Source:** 1984 AACS.

**R 408.10933**

**Source:** 1979 AC.

**R 408.10934**

**Source:** 1984 AACS.

**R 408.10935**

**Source:** 1979 AC.

**R 408.10936**

**Source:** 1997 AACS.

**R 408.10937**

**Source:** 1984 AACS.

**CARBON DIOXIDE SYSTEMS**

**R 408.10941**

**Source:** 1984 AACS.

**R 408.10944**

**Source:** 1979 AC.

**R 408.10945**

**Source:** 1979 AC.

**R 408.10946**

**Source:** 1979 AC.

**DRY CHEMICAL SYSTEMS**

**R 408.10951**

**Source:** 1984 AACS.



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**R 408.10952**  
Source: 1984 AACS.

**R 408.10953**  
Source: 1979 AC.

**R 408.10954**  
Source: 1979 AC.

**R 408.10955**  
Source: 1979 AC.

**FOAM SYSTEMS**

**R 408.10961**  
Source: 1984 AACS.

**R 408.10963**  
Source: 1984 AACS.

**R 408.10964**  
Source: 1984 AACS.

**R 408.10965**  
Source: 1984 AACS.

**HALOGENATED EXTINGUISHING SYSTEMS**

**R 408.10971**  
Source: 1984 AACS.

**R 408.10973**  
Source: 1979 AC.

**R 408.10975**  
Source: 1979 AC.

**R 408.10976**  
Source: 1979 AC.

**LOCAL FIRE ALARM SYSTEMS**

**R 408.10981**  
Source: 1984 AACS.

**R 408.10983**  
Source: 1984 AACS.

**R 408.10984**  
Source: 1979 AC.

**FIRE DETECTION SYSTEMS**

**R 408.10991**

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Source: 1984 AACS.

**R 408.10993**

Source: 1984 AACS.

**R 408.10995**

Source: 1984 AACS.

**R 408.10999**

Source: 1984 AACS.

**PART 11. POLISHING, BUFFING, AND ABRADING**

**R 408.11101**

Source: 1979 AC.

**R 408.11103**

Source: 1979 AC.

**R 408.11104**

Source: 1979 AC.

**R 408.11105**

Source: 1979 AC.

**R 408.11111**

Source: 1983 AACS.

**R 408.11115**

Source: 1979 AC.

**R 408.11116**

Source: 1979 AC.

**R 408.11118**

Source: 1979 AC.

**R 408.11119**

Source: 1979 AC.

**R 408.11121**

Source: 1979 AC.

**R 408.11123**

Source: 1979 AC.

**R 408.11131**

Source: 1979 AC.

**R 408.11135**

Source: 1979 AC.

**R 408.11137**

Source: 1979 AC.

**PART 12. WELDING AND CUTTING**

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- R 408.11201**  
Source: 1979 AC.
- R 408.11203**  
Source: 1979 AC.
- R 408.11204**  
Source: 1979 AC.
- R 408.11205**  
Source: 1988 AACS.
- R 408.11211**  
Source: 1983 AACS.
- R 408.11212**  
Source: 1988 AACS.
- R 408.11213**  
Source: 1988 AACS.
- R 408.11214**  
Source: 1997 AACS.
- R 408.11221**  
Source: 1979 AC.
- R 408.11222**  
Source: 1988 AACS.
- R 408.11223**  
Source: 1979 AC.
- R 408.11224**  
Source: 1979 AC.
- R 408.11225**  
Source: 1988 AACS.
- R 408.11231**  
Source: 1979 AC.
- R 408.11232**  
Source: 1981 AACS.
- R 408.11233**  
Source: 1979 AC.
- R 408.11234**  
Source: 1981 AACS.
- R 408.11241**  
Source: 1979 AC.
- R 408.11242**  
Source: 1981 AACS.
- R 408.11243**  
Source: 1979 AC.

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- R 408.11244**  
Source: 1979 AC.
- R 408.11245**  
Source: 1979 AC.
- R 408.11251**  
Source: 1979 AC.
- R 408.11252**  
Source: 1979 AC.
- R 408.11253**  
Source: 1979 AC.
- R 408.11254**  
Source: 1979 AC.
- R 408.11261**  
Source: 1979 AC.
- R 408.11262**  
Source: 1979 AC.
- R 408.11271**  
Source: 1979 AC.
- R 408.11272**  
Source: 1979 AC.
- R 408.11273**  
Source: 1979 AC.
- R 408.11274**  
Source: 1979 AC.
- R 408.11275**  
Source: 1979 AC.
- R 408.11276**  
Source: 1979 AC.
- R 408.11281**  
Source: 1988 AACS.
- R 408.11282**  
Source: 1979 AC.
- R 408.11283**  
Source: 1979 AC.
- R 408.11284**  
Source: 1979 AC.
- R 408.11291**  
Source: 1979 AC.
- R 408.11292**  
Source: 1981 AACS.

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- R 408.11293**  
Source: 1979 AC.
- R 408.11294**  
Source: 1981 AACS.
- R 408.11295**  
Source: 1979 AC.
- R 408.11296**  
Source: 1979 AC.
- R 408.11297**  
Source: 1997 AACS.
- R 408.11298**  
Source: 1981 AACS.
- R 408.11299**  
Source: 1981 AACS.

**PART 13. DERRICKS**

- R 408.11301**  
Source: 1982 AACS.

**PART 14. CONVEYORS**

- R 408.11401**  
Source: 1979 AC.
- R 408.11403**  
Source: 1979 AC.
- R 408.11404**  
Source: 1979 AC.
- R 408.11405**  
Source: 1979 AC.
- R 408.11406**  
Source: 1979 AC.
- R 408.11407**  
Source: 1979 AC.
- R 408.11411**  
Source: 1979 AC.
- R 408.11412**  
Source: 1979 AC.
- R 408.11421**  
Source: 1979 AC.
- R 408.11422**  
Source: 1979 AC.

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- R 408.11423**  
Source: 1979 AC.
- R 408.11424**  
Source: 1979 AC.
- R 408.11425**  
Source: 1979 AC.
- R 408.11426**  
Source: 1979 AC.
- R 408.11427**  
Source: 1979 AC.
- R 408.11428**  
Source: 1979 AC.
- R 408.11429**  
Source: 1979 AC.
- R 408.11431**  
Source: 1979 AC.
- R 408.11432**  
Source: 1979 AC.
- R 408.11433**  
Source: 1979 AC.
- R 408.11434**  
Source: 1979 AC.
- R 408.11435**  
Source: 1979 AC.
- R 408.11436**  
Source: 1997 AACS.
- R 408.11441**  
Source: 1979 AC.
- R 408.11442**  
Source: 1979 AC.
- R 408.11443**  
Source: 1979 AC.
- R 408.11444**  
Source: 1979 AC.
- R 408.11445**  
Source: 1979 AC.
- R 408.11446**  
Source: 1979 AC.
- R 408.11447**  
Source: 1979 AC.

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**R 408.11448**  
Source: 1979 AC.

**R 408.11449**  
Source: 1979 AC.

**R 408.11450**  
Source: 1979 AC.

**R 408.11451**  
Source: 1979 AC.

**R 408.11452**  
Source: 1979 AC.

**R 408.11461**  
Source: 1979 AC.

**PART 16. LABELING OF HAZARDOUS SUBSTANCES**

**R 408.11601**  
Source: 1997 AACS.

**R 408.11602**  
Source: 1997 AACS.

**R 408.11603**  
Source: 1997 AACS.

**R 408.11604**  
Source: 1997 AACS.

**R 408.11605**  
Source: 1997 AACS.

**R 408.11606**  
Source: 1997 AACS.

**R 408.11607**  
Source: 1997 AACS.

**R 408.11608**  
Source: 1997 AACS.

**R 408.11609**  
Source: 1997 AACS.

**R 408.11610**  
Source: 1997 AACS.

**R 408.11611**  
Source: 1997 AACS.

**R 408.11612**  
Source: 1997 AACS.

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**R 408.11613**  
Source: 1997 AACs.

**PART 17. REFUSE PACKER UNITS**

**R 408.11701**  
Source: 1979 AC.

**R 408.11704**  
Source: 1979 AC.

**R 408.11705**  
Source: 1979 AC.

**R 408.11706**  
Source: 1979 AC.

**R 408.11711**  
Source: 1979 AC.

**R 408.11713**  
Source: 1979 AC.

**R 408.11715**  
Source: 1979 AC.

**R 408.11716**  
Source: 1979 AC.

**R 408.11717**  
Source: 1979 AC.

**R 408.11718**  
Source: 1979 AC.

**R 408.11721**  
Source: 1979 AC.

**R 408.11722**  
Source: 1979 AC.

**R 408.11723**  
Source: 1979 AC.

**R 408.11724**  
Source: 1979 AC.

**R 408.11725**  
Source: 1979 AC.

**R 408.11731**  
Source: 1979 AC.

**R 408.11732**  
Source: 1979 AC.

**PART 18. OVERHEAD AND GANTRY CRANES**



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**OPERATORS AND OPERATIONS**

**R 408.11801**  
Source: 2002 AACS.

**R 408.11803**  
Source: 2002 AACS.

**R 408.11804**  
Source: 2002 AACS.

**R 408.11805**  
Source: 2002 AACS.

**R 408.11806**  
Source: 2002 AACS.

**R 408.11807**  
Source: 2005 AACS.

**R 408.11808**  
Source: 2002 AACS.

**CONSTRUCTION, INSTALLATION AND EQUIPMENT**

**R 408.11821**  
Source: 2005 AACS.

**R 408.11822**  
Source: 2005 AACS.

**R 408.11823**  
Source: 1979 AC.

**R 408.11824**  
Source: 2002 AACS.

**R 408.11825**  
Source: 2002 AACS.

**R 408.11826**  
Source: 2002 AACS.

**R 408.11827**  
Source: 2002 AACS.

**R 408.11831**  
Source: 1979 AC.

**R 408.11832**  
Source: 1979 AC.

**R 408.11833**  
Source: 2002 AACS.

**R 408.11835**  
Source: 2002 AACS.

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**R 408.11837**  
Source: 2002 AACS.

**R 408.11841**  
Source: 2002 AACS.

**R 408.11843**  
Source: 2002 AACS.

**R 408.11844**  
Source: 2002 AACS.

**R 408.11845**  
Source: 2002 AACS.

**R 408.11847**  
Source: 2002 AACS.

**OPERATORS AND OPERATIONS**

**R 408.11851**  
Source: 2002 AACS.

**R 408.11852**  
Source: 2002 AACS.

**R 408.11853**  
Source: 2002 AACS.

**R 408.11854**  
Source: 2002 AACS.

**R 408.11855**  
Source: 2005 AACS.

**R 408.11857**  
Source: 2002 AACS.

**R 408.11859**  
Source: 2002 AACS.

**R 408.11861**  
Source: 2002 AACS.

**R 408.11863**  
Source: 1979 AC.

**R 408.11865**  
Source: 2002 AACS.

**INSPECTIONS**

**R 408.11871**  
Source: 2002 AACS.

**R 408.11872**  
Source: 2005 AACS.

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**R 408.11873**  
Source: 2005 AACS.

**R 408.11874**  
Source: 2002 AACS.

**R 408.11875**  
Source: 2002 AACS.

**PART 19. CRAWLER, LOCOMOTIVE, AND TRUCK CRANES**

**R 408.11901**  
Source: 1979 AC.

**R 408.11903**  
Source: 1979 AC.

**R 408.11904**  
Source: 1979 AC.

**R 408.11905**  
Source: 1979 AC.

**R 408.11906**  
Source: 1979 AC.

**R 408.11911**  
Source: 1979 AC.

**R 408.11912**  
Source: 1979 AC.

**R 408.11913**  
Source: 1991 AACS.

**R 408.11914**  
Source: 1979 AC.

**R 408.11915**  
Source: 1979 AC.

**R 408.11916**  
Source: 1997 AACS.

**R 408.11921**  
Source: 1979 AC.

**R 408.11923**  
Source: 1979 AC.

**R 408.11924**  
Source: 1979 AC.

**R 408.11931**  
Source: 1979 AC.

**R 408.11932**

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Source: 1979 AC.

**R 408.11933**

Source: 1979 AC.

**R 408.11934**

Source: 1979 AC.

**R 408.11935**

Source: 1979 AC.

**R 408.11936**

Source: 1979 AC.

**R 408.11937**

Source: 1989 AACS.

**R 408.11941**

Source: 1979 AC.

**R 408.11942**

Source: 1979 AC.

**R 408.11943**

Source: 1989 AACS.

**R 408.11951**

Source: 1979 AC.

**R 408.11952**

Source: 1979 AC.

**R 408.11953**

Source: 1979 AC.

**R 408.11954**

Source: 1979 AC.

**R 408.11955**

Source: 1979 AC.

**R 408.11956**

Source: 1979 AC.

**R 408.11957**

Source: 1979 AC.

**R 408.11971**

Source: 1979 AC.

**R 408.11972**

Source: 1979 AC.

**PART 20. UNDERHUNG CRANES AND MONORAIL SYSTEMS**

**R 408.12001**

Source: 1990 AACS.

**R 408.12003**

**Annual Administrative Code Supplement**  
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**Source:** 1990 AACs.

**R 408.12004**

**Source:** 1990 AACs.

**R 408.12005**

**Source:** 1990 AACs.

**CONSTRUCTION, INSTALLATION, AND TESTING**

**R 408.12011**

**Source:** 1997 AACs.

**R 408.12012**

**Source:** 1990 AACs.

**R 408.12013**

**Source:** 1990 AACs.

**R 408.12014**

**Source:** 1990 AACs.

**R 408.12015**

**Source:** 1990 AACs.

**R 408.12016**

**Source:** 1990 AACs.

**R 408.12017**

**Source:** 1990 AACs.

**R 408.12018**

**Source:** 1990 AACs.

**R 408.12019**

**Source:** 1990 AACs.

**OPERATORS AND OPERATIONS**

**R 408.12021**

**Source:** 1990 AACs.

**R 408.12022**

**Source:** 1990 AACs.

**R 408.12023**

**Source:** 1990 AACs.

**R 408.12024**

**Source:** 1990 AACs.

**R 408.12025**

**Source:** 1990 AACs.

**R 408.12026**

**Source:** 1990 AACs.

**R 408.12031**

**Source:** 1990 AACs.

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**R 408.12032**  
Source: 1990 AACS.

**R 408.12033**  
Source: 1990 AACS.

**R 408.12034**  
Source: 1990 AACS.

**R 408.12035**  
Source: 1990 AACS.

**INSPECTION AND MAINTENANCE**

**R 408.12041**  
Source: 1990 AACS.

**R 408.12042**  
Source: 1990 AACS.

**R 408.12043**  
Source: 1990 AACS.

**R 408.12044**  
Source: 1990 AACS.

**R 408.12045**  
Source: 1990 AACS.

**PART 21. POWERED INDUSTRIAL TRUCKS**

**R 408.12101**  
Source: 1979 AC.

**R 408.12102**  
Source: 1998-2000 AACS.

**R 408.12103**  
Source: 1998-2000 AACS.

**R 408.12104**  
Source: 1998-2000 AACS.

**R 408.12105**  
Source: 1998-2000 AACS.

**R 408.12106**  
Source: 1998-2000 AACS.

**R 408.12107**  
Source: 1979 AC.

**R 408.12108**  
Source: 1979 AC.

**R 408.12109**  
Source: 1998-2000 AACS.

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**R 408.12110**  
Source: 1998-2000 AACS.

**R 408.12111**  
Source: 1998-2000 AACS.

**R 408.12121**  
Source: 1998-2000 AACS.

**R 408.12122**  
Source: 1979 AC.

**R 408.12123**  
Source: 1979 AC.

**R 408.12124**  
Source: 1979 AC.

**R 408.12125**  
Source: 1979 AC.

**R 408.12126**  
Source: 1979 AC.

**R 408.12127**  
Source: 1979 AC.

**R 408.12128**  
Source: 1979 AC.

**R 408.12129**  
Source: 1979 AC.

**R 408.12130**  
Source: 1998-2000 AACS.

**R 408.12131**  
Source: 1979 AC.

**R 408.12132**  
Source: 1998-2000 AACS.

**R 408.12133**  
Source: 1979 AC.

**R 408.12134**  
Source: 1998-2000 AACS.

**R 408.12135**  
Source: 1998-2000 AACS.

**R 408.12136**  
Source: 1998-2000 AACS.

**R 408.12137**  
Source: 1998-2000 AACS.

**R 408.12138**

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**Source:** 1998-2000 AACS.

**R 408.12139**

**Source:** 1979 AC.

**R 408.12143**

**Source:** 1983 AACS.

**R 408.12151**

**Source:** 1998-2000 AACS.

**R 408.12152**

**Source:** 1998-2000 AACS.

**R 408.12153**

**Source:** 1983 AACS.

**R 408.12154**

**Source:** 1998-2000 AACS.

**R 408.12155**

**Source:** 1998-2000 AACS.

**R 408.12161**

**Source:** 1980 AACS.

**R 408.12162**

**Source:** 1983 AACS.

**R 408.12163**

**Source:** 1998-2000 AACS.

**R 408.12164**

**Source:** 1998-2000 AACS.

**R 408.12165**

**Source:** 1979 AC.

**R 408.12166**

**Source:** 1979 AC.

**R 408.12167**

**Source:** 1979 AC.

**R 408.12168**

**Source:** 1979 AC.

**R 408.12169**

**Source:** 1979 AC.

**R 408.12171**

**Source:** 1998-2000 AACS.

**R 408.12172**

**Source:** 1998-2000 AACS.

**R 408.12173**

**Source:** 1998-2000 AACS.



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- R 408.12174**  
Source: 1979 AC.
- R 408.12175**  
Source: 1979 AC.
- R 408.12178**  
Source: 1979 AC.
- R 408.12176**  
Source: 1998-2000 AACS.
- R 408.12177**  
Source: 1983 AACS.
- R 408.12179**  
Source: 1983 AACS.
- R 408.12180**  
Source: 1979 AC.
- R 408.12181**  
Source: 1979 AC.
- R 408.12182**  
Source: 1979 AC.
- R 408.12183**  
Source: 1983 AACS.
- R 408.12184**  
Source: 1983 AACS.
- R 408.12185**  
Source: 1979 AC.
- R 408.12186**  
Source: 1979 AC.
- R 408.12187**  
Source: 1979 AC.
- R 408.12188**  
Source: 1979 AC.
- R 408.12189**  
Source: 1979 AC.
- R 408.12190**  
Source: 1983 AACS.
- R 408.12191**  
Source: 1979 AC.
- R 408.12192**  
Source: 1979 AC.
- R 408.12193**

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**Source:** 1979 AC.

**PART 22. TRACTORS**

**R 408.12201**

**Source:** 1979 AC.

**R 408.12203**

**Source:** 1979 AC.

**R 408.12205**

**Source:** 1979 AC.

**R 408.12206**

**Source:** 1979 AC.

**R 408.12207**

**Source:** 1979 AC.

**R 408.12211**

**Source:** 1979 AC.

**R 408.12212**

**Source:** 1979 AC.

**R 408.12213**

**Source:** 1979 AC.

**R 408.12214**

**Source:** 1979 AC.

**R 408.12215**

**Source:** 1979 AC.

**R 408.12216**

**Source:** 1979 AC.

**R 408.12217**

**Source:** 1979 AC.

**R 408.12218**

**Source:** 1979 AC.

**R 408.12219**

**Source:** 1979 AC.

**R 408.12220**

**Source:** 1979 AC.

**R 408.12231**

**Source:** 1979 AC.

**R 408.12232**

**Source:** 1979 AC.

**R 408.12233**

**Source:** 1979 AC.

**R 408.12234**

**Source:** 1979 AC.

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**R 408.12235**  
Source: 1979 AC.

**R 408.12236**  
Source: 1979 AC.

**R 408.12237**  
Source: 1979 AC.

**R 408.12238**  
Source: 1979 AC.

**R 408.12239**  
Source: 1979 AC.

**R 408.12240**  
Source: 1979 AC.

**R 408.12241**  
Source: 1979 AC.

**R 408.12242**  
Source: 1979 AC.

**R 408.12243**  
Source: 1979 AC.

**R 408.12251**  
Source: 1979 AC.

**R 408.12252**  
Source: 1979 AC.

**R 408.12253**  
Source: 1979 AC.

**R 408.12254**  
Source: 1979 AC.

**R 408.12255**  
Source: 1979 AC.

**R 408.12259**  
Source: 1979 AC.

**R 408.12260**  
Source: 1979 AC.

**R 408.12261**  
Source: 1979 AC.

**PART 23. HYDRAULIC POWER PRESSES**

**R 408.12301**  
Source: 1979 AC.

**R 408.12303**  
Source: 1979 AC.

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**R 408.12304**  
Source: 1979 AC.

**R 408.12305**  
Source: 1979 AC.

**R 408.12306**  
Source: 1979 AC.

**R 408.12307**  
Source: 1979 AC.

**R 408.12308**  
Source: 1979 AC.

**R 408.12309**  
Source: 1979 AC.

**R 408.12310**  
Source: 1979 AC.

**R 408.12311**  
Source: 1979 AC.

**R 408.12312**  
Source: 1979 AC.

**R 408.12316**  
Source: 1979 AC.

**R 408.12321**  
Source: 1979 AC.

**R 408.12322**  
Source: 1979 AC.

**R 408.12323**  
Source: 1979 AC.

**R 408.12324**  
Source: 1979 AC.

**R 408.12325**  
Source: 1979 AC.

**R 408.12326**  
Source: 1979 AC.

**R 408.12327**  
Source: 1979 AC.

**R 408.12331**  
Source: 1979 AC.

**R 408.12332**  
Source: 1979 AC.

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- R 408.12334**  
Source: 1979 AC.
- R 408.12336**  
Source: 1997 AACCS.
- R 408.12338**  
Source: 1979 AC.
- R 408.12341**  
Source: 1979 AC.
- R 408.12343**  
Source: 1979 AC.
- R 408.12344**  
Source: 1979 AC.
- R 408.12345**  
Source: 1979 AC.
- R 408.12351**  
Source: 1979 AC.
- R 408.12353**  
Source: 1979 AC.
- R 408.12355**  
Source: 1979 AC.
- R 408.12356**  
Source: 1979 AC.
- R 408.12361**  
Source: 1979 AC.
- R 408.12363**  
Source: 1979 AC.
- R 408.12365**  
Source: 1979 AC.
- R 408.12366**  
Source: 1979 AC.
- R 408.12367**  
Source: 1979 AC.
- R 408.12369**  
Source: 1979 AC.
- R 408.12370**  
Source: 1979 AC.
- R 408.12371**  
Source: 1979 AC.
- R 408.12372**

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**Source:** 1979 AC.

**R 408.12373**

**Source:** 1979 AC.

**PART 24. MECHANICAL POWER PRESSES**

**R 408.12401**

**Source:** 1990 AACS.

**R 408.12403**

**Source:** 1990 AACS.

**R 408.12404**

**Source:** 1990 AACS.

**R 408.12405**

**Source:** 1979 AC.

**R 408.12406**

**Source:** 1979 AC.

**R 408.12407**

**Source:** 1990 AACS.

**R 408.12408**

**Source:** 1979 AC.

**R 408.12409**

**Source:** 1979 AC.

**R 408.12411**

**Source:** 1993 AACS.

**R 408.12412**

**Source:** 1993 AACS.

**R 408.12413**

**Source:** 1990 AACS.

**R 408.12421**

**Source:** 1979 AC.

**R 408.12422**

**Source:** 1979 AC.

**R 408.12423**

**Source:** 1979 AC.

**R 408.12424**

**Source:** 1979 AC.

**R 408.12425**

**Source:** 1979 AC.

**R 408.12426**

**Source:** 1979 AC.

**R 408.12427**

**Source:** 1979 AC.

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**R 408.12428**  
Source: 1990 AACS.

**R 408.12429**  
Source: 1979 AC.

**R 408.12431**  
Source: 1979 AC.

**R 408.12432**  
Source: 1979 AC.

**R 408.12433**  
Source: 1979 AC.

**R 408.12434**  
Source: 1979 AC.

**R 408.12441**  
Source: 1979 AC.

**R 408.12442**  
Source: 1990 AACS.

**R 408.12443**  
Source: 1990 AACS.

**R 408.12444**  
Source: 1979 AC.

**R 408.12445**  
Source: 1979 AC.

**R 408.12446**  
Source: 1979 AC.

**R 408.12447**  
Source: 1979 AC.

**R 408.12448**  
Source: 1979 AC.

**R 408.12449**  
Source: 1979 AC.

**R 408.12450**  
Source: 1979 AC.

**R 408.12451**  
Source: 1979 AC.

**R 408.12452**  
Source: 1979 AC.

**R 408.12453**  
Source: 1979 AC.

**R 408.12454**  
Source: 1979 AC.

**SAFEGUARDING THE POINT OF OPERATION**

- R 408.12461**  
Source: 1990 AACS.
- R 408.12463**  
Source: 1993 AACS.
- R 408.12464**  
Source: 1979 AC.

**DIE DESIGN, CONSTRUCTION, SETTING, AND FEEDING**

- R 408.12471**  
Source: 1990 AACS.
- R 408.12472**  
Source: 1990 AACS.
- R 408.12473**  
Source: 1990 AACS.
- R 408.12474**  
Source: 1990 AACS.
- R 408.12475**  
Source: 1979 AC.
- R 408.12476**  
Source: 1979 AC.
- R 408.12477**  
Source: 1990 AACS.

**PART 25. MANLIFTS**

- R 408.12501**  
Source: 1997 AACS.

**PART 26. METALWORKING MACHINERY**

- R 408.12601**  
Source: 1979 AC.
- R 408.12602**  
Source: 1979 AC.
- R 408.12603**  
Source: 1979 AC.
- R 408.12604**  
Source: 1979 AC.
- R 408.12605**



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**Source:** 1991 AACS.

**R 408.12606**

**Source:** 1979 AC.

**R 408.12607**

**Source:** 1991 AACS.

**R 408.12608**

**Source:** 1979 AC.

**R 408.12611**

**Source:** 1979 AC.

**R 408.12612**

**Source:** 1979 AC.

**R 408.12613**

**Source:** 1997 AACS.

**R 408.12614**

**Source:** 1991 AACS.

**R 408.12615**

**Source:** 1997 AACS.

**R 408.12616**

**Source:** 1979 AC.

**R 408.12617**

**Source:** 1997 AACS.

**R 408.12618**

**Source:** 1979 AC.

**R 408.12619**

**Source:** 1979 AC.

**R 408.12620**

**Source:** 1991 AACS.

**R 408.12622**

**Source:** 1979 AC.

**R 408.12631**

**Source:** 1979 AC.

**R 408.12632**

**Source:** 1979 AC.

**R 408.12633**

**Source:** 1991 AACS.

**R 408.12634**

**Source:** 1979 AC.

**R 408.12635**

**Source:** 1991 AACS.

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**R 408.12636**  
Source: 1991 AACS.

**R 408.12637**  
Source: 1979 AC.

**R 408.12638**  
Source: 1979 AC.

**R 408.12639**  
Source: 1991 AACS.

**R 408.12640**  
Source: 1991 AACS.

**R 408.12641**  
Source: 1991 AACS.

**R 408.12642**  
Source: 1991 AACS.

**R 408.12643**  
Source: 1979 AC.

**R 408.12644**  
Source: 1979 AC.

**R 408.12645**  
Source: 1979 AC.

**R 408.12646**  
Source: 1991 AACS.

**R 408.12647**  
Source: 1979 AC.

**R 408.12648**  
Source: 1979 AC.

**R 408.12649**  
Source: 1979 AC.

**R 408.12650**  
Source: 1991 AACS.

**PART 27. WOODWORKING MACHINERY**

**R 408.12701**  
Source: 1979 AC.

**R 408.12705**  
Source: 1979 AC.

**R 408.12706**  
Source: 1979 AC.

**R 408.12707**  
Source: 1979 AC.

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- R 408.12708**  
Source: 1979 AC.
- R 408.12709**  
Source: 1979 AC.
- R 408.12711**  
Source: 1979 AC.
- R 408.12712**  
Source: 1979 AC.
- R 408.12714**  
Source: 1979 AC.
- R 408.12715**  
Source: 1997 AACS.
- R 408.12716**  
Source: 1997 AACS.
- R 408.12717**  
Source: 1979 AC.
- R 408.12718**  
Source: 1981 AACS.
- R 408.12719**  
Source: 1979 AC.
- R 408.12720**  
Source: 1979 AC.
- R 408.12721**  
Source: 1979 AC.
- R 408.12722**  
Source: 1979 AC.
- R 408.12723**  
Source: 1979 AC.
- R 408.12724**  
Source: 1979 AC.
- R 408.12725**  
Source: 1979 AC.
- R 408.12726**  
Source: 1979 AC.
- R 408.12727**  
Source: 1981 AACS.
- R 408.12728**  
Source: 1983 AACS.
- R 408.12729**  
Source: 1979 AC.

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**R 408.12730**  
Source: 1983 AACCS.

**R 408.12731**  
Source: 1979 AC.

**R 408.12732**  
Source: 1979 AC.

**R 408.12733**  
Source: 1979 AC.

**R 408.12736**  
Source: 1979 AC.

**R 408.12737**  
Source: 1979 AC.

**R 408.12739**  
Source: 1979 AC.

**R 408.12740**  
Source: 1979 AC.

**R 408.12741**  
Source: 1979 AC.

**R 408.12742**  
Source: 1979 AC.

**R 408.12744**  
Source: 1979 AC.

**R 408.12751**  
Source: 1981 AACCS.

**R 408.12752**  
Source: 1979 AC.

**R 408.12755**  
Source: 1979 AC.

**R 408.12756**  
Source: 1979 AC.

**R 408.12759**  
Source: 1979 AC.

**R 408.12761**  
Source: 1979 AC.

**R 408.12762**  
Source: 1979 AC.

**R 408.12763**  
Source: 1979 AC.

**R 408.12767**  
Source: 1979 AC.

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- R 408.12768**  
Source: 1979 AC.
- R 408.12769**  
Source: 1979 AC.
- R 408.12770**  
Source: 1979 AC.
- R 408.12773**  
Source: 1979 AC.
- R 408.12774**  
Source: 1979 AC.
- R 408.12776**  
Source: 1979 AC.
- R 408.12779**  
Source: 1979 AC.
- R 408.12781**  
Source: 1979 AC.
- R 408.12784**  
Source: 1979 AC.
- R 408.12785**  
Source: 1979 AC.
- R 408.12786**  
Source: 1979 AC.
- R 408.12787**  
Source: 1979 AC.
- R 408.12791**  
Source: 1979 AC.
- R 408.12792**  
Source: 1979 AC.
- R 408.12793**  
Source: 1981 AACS.
- R 408.12794**  
Source: 1979 AC.
- R 408.12795**  
Source: 1979 AC.
- R 408.12796**  
Source: 1979 AC.
- R 408.12797**  
Source: 1979 AC.
- R 408.12798**  
Source: 1983 AACS.

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**R 408.12799**  
Source: 1979 AC.

**PART 31. PERSONAL PROTECTIVE EQUIPMENT**

**R 408.13101**  
Source: 1997 AACS.

**R 408.13102**  
Source: 1997 AACS.

**R 408.13103**  
Source: 1997 AACS.

**R 408.13104**  
Source: 1997 AACS.

**R 408.13105**  
Source: 1997 AACS.

**R 408.13106**  
Source: 1997 AACS.

**R 408.13107**  
Source: 1997 AACS.

**R 408.13108**  
Source: 1997 AACS.

**R 408.13109**  
Source: 1997 AACS.

**R 408.13110**  
Source: 1997 AACS.

**R 408.13111**  
Source: 1997 AACS.

**R 408.13112**  
Source: 1997 AACS.

**R 408.13113**  
Source: 1997 AACS.

**R 408.13114**  
Source: 1997 AACS.

**R 408.13115**  
Source: 1997 AACS.

**R 408.13116**  
Source: 1997 AACS.

**R 408.13117**  
Source: 1997 AACS.

**R 408.13118**  
Source: 1997 AACS.

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**R 408.13119**  
Source: 1997 AACS.

**R 408.13120**  
Source: 1997 AACS.

**R 408.13121**  
Source: 1997 AACS.

**R 408.13122**  
Source: 1997 AACS.

**R 408.13123**  
Source: 1997 AACS.

**R 408.13124**  
Source: 1997 AACS.

**R 408.13125**  
Source: 1997 AACS.

**R 408.13126**  
Source: 1997 AACS.

**R 408.13127**  
Source: 1997 AACS.

**R 408.13128**  
Source: 1997 AACS.

**R 408.13129**  
Source: 1997 AACS.

**R 408.13130**  
Source: 1997 AACS.

**R 408.13131**  
Source: 1997 AACS.

**R 408.13132**  
Source: 1997 AACS.

**R 408.13133**  
Source: 1997 AACS.

**R 408.13134**  
Source: 1997 AACS.

**R 408.13135**  
Source: 1997 AACS.

**PART 32. HEAD PROTECTION EQUIPMENT**

**R 408.13201**  
Source: 1997 AACS.

**R 408.13203**  
Source: 1997 AACS.

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**R 408.13205**  
Source: 1997 AACS.

**R 408.13211**  
Source: 1997 AACS.

**R 408.13221**  
Source: 1997 AACS.

**R 408.13222**  
Source: 1997 AACS.

**R 408.13231**  
Source: 1997 AACS.

**R 408.13241**  
Source: 1997 AACS.

**PART 33. PERSONAL PROTECTIVE EQUIPMENT**

**R 408.13301**  
Source: 1983 AACS.

**R 408.13302**  
Source: 1983 AACS.

**R 408.13303**  
Source: 1983 AACS.

**R 408.13304**  
Source: 1983 AACS.

**R 408.13305**  
Source: 1983 AACS.

**R 408.13306**  
Source: 1983 AACS.

**R 408.13308**  
Source: 1995 AACS.

**R 408.13309**  
Source: 1995 AACS.

**R 408.13310**  
Source: 1997 AACS.

**FACE AND EYE PROTECTION**

**R 408.13311**  
Source: 1997 AACS.

**R 408.13312**  
Source: 1997 AACS.

**R 408.13313**  
Source: 1983 AACS.



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**R 408.13320**  
Source: 1983 AACS.

**R 408.13321**  
Source: 1983 AACS.

**R 408.13322**  
Source: 1983 AACS.

**R 408.13323**  
Source: 1983 AACS.

**R 408.13324**  
Source: 1995 AACS.

**R 408.13325**  
Source: 1983 AACS.

**R 408.13327**  
Source: 1983 AACS.

**R 408.13329**  
Source: 1983 AACS.

**R 408.13330**  
Source: 1983 AACS.

**R 408.13332**  
Source: 1983 AACS.

**R 408.13340**  
Source: 1983 AACS.

**R 408.13342**  
Source: 1983 AACS.

**R 408.13343**  
Source: 1983 AACS.

**R 408.13344**  
Source: 1983 AACS.

**R 408.13345**  
Source: 1983 AACS.

**R 408.13346**  
Source: 1983 AACS.

**R 408.13347**  
Source: 1983 AACS.

**EYE PROTECTORS**

**R 408.13350**  
Source: 1997 AACS.

**R 408.13352**  
Source: 1983 AACS.

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**R 408.13353**  
Source: 1983 AACS.

**R 408.13355**  
Source: 1983 AACS.

**R 408.13356**  
Source: 1983 AACS.

**R 408.13357**  
Source: 1983 AACS.

**R 408.13359**  
Source: 1983 AACS.

**R 408.13360**  
Source: 1983 AACS.

**R 408.13362**  
Source: 1983 AACS.

**R 408.13363**  
Source: 1983 AACS.

**R 408.13364**  
Source: 1983 AACS.

**R 408.13366**  
Source: 1983 AACS.

**R 408.13367**  
Source: 1983 AACS.

**R 408.13369**  
Source: 1983 AACS.

**HEAD PROTECTION EQUIPMENT**

**R 408.13370**  
Source: 1997 AACS.

**R 408.13372**  
Source: 1997 AACS.

**R 408.13375**  
Source: 1995 AACS.

**R 408.13376**  
Source: 1983 AACS.

**R 408.13378**  
Source: 1983 AACS.

**FOOT PROTECTION**

**R 408.13383**  
Source: 1997 AACS.

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**R 408.13384**  
Source: 1983 AACS.

**R 408.13385**  
Source: 1997 AACS.

**R 408.13386**  
Source: 1983 AACS.

**ELECTRICAL PROTECTIVE EQUIPMENT**

**R 408.13387**  
Source: 1997 AACS.

**R 408.13390**  
Source: 1997 AACS.

**HAND PROTECTION**

**R 408.13392**  
Source: 1995 AACS.

**R 408.13394**  
Source: 1997 AACS.

**R 408.13398**  
Source: 1983 AACS.

**PART 35. FACE AND EYE PROTECTION**

**R 408.13501**  
Source: 1997 AACS.

**R 408.13503**  
Source: 1997 AACS.

**R 408.13504**  
Source: 1997 AACS.

**R 408.13505**  
Source: 1997 AACS.

**R 408.13506**  
Source: 1997 AACS.

**R 408.13508**  
Source: 1997 AACS.

**R 408.13511**  
Source: 1997 AACS.

**R 408.13512**  
Source: 1997 AACS.

**R 408.13513**  
Source: 1997 AACS.

**R 408.13514**

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**Source:** 1997 AACS.

**R 408.13521**

**Source:** 1997 AACS.

**R 408.13522**

**Source:** 1997 AACS.

**R 408.13523**

**Source:** 1997 AACS.

**R 408.13524**

**Source:** 1997 AACS.

**R 408.13525**

**Source:** 1997 AACS.

**R 408.13526**

**Source:** 1997 AACS.

**R 408.13528**

**Source:** 1997 AACS.

**R 408.13530**

**Source:** 1997 AACS.

**R 408.13531**

**Source:** 1997 AACS.

**R 408.13533**

**Source:** 1997 AACS.

**R 408.13541**

**Source:** 1997 AACS.

**R 408.13542**

**Source:** 1997 AACS.

**R 408.13543**

**Source:** 1997 AACS.

**R 408.13544**

**Source:** 1997 AACS.

**R 408.13545**

**Source:** 1997 AACS.

**R 408.13546**

**Source:** 1997 AACS.

**R 408.13547**

**Source:** 1997 AACS.

**R 408.13551**

**Source:** 1997 AACS.

**R 408.13552**

**Source:** 1997 AACS.

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**R 408.13553**  
Source: 1997 AACS.

**R 408.13555**  
Source: 1997 AACS.

**R 408.13556**  
Source: 1997 AACS.

**R 408.13557**  
Source: 1997 AACS.

**R 408.13559**  
Source: 1997 AACS.

**R 408.13560**  
Source: 1997 AACS.

**R 408.13562**  
Source: 1997 AACS.

**R 408.13563**  
Source: 1997 AACS.

**R 408.13564**  
Source: 1997 AACS.

**R 408.13566**  
Source: 1997 AACS.

**R 408.13567**  
Source: 1997 AACS.

**R 408.13569**  
Source: 1997 AACS.

**PART 37. ACCIDENT PREVENTION SIGNS AND TAGS**

**TAGS**

**R 408.13701**  
Source: 1979 AC.

**R 408.13702**  
Source: 1979 AC.

**R 408.13703**  
Source: 1983 AACS.

**R 408.13704**  
Source: 1979 AC.

**R 408.13706**  
Source: 1979 AC.

**R 408.13707**  
Source: 1983 AACS.

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**R 408.13708**  
Source: 1983 AACS.

**R 408.13709**  
Source: 1979 AC.

**R 408.13711**  
Source: 1983 AACS.

**R 408.13713**  
Source: 1983 AACS.

**R 408.13714**  
Source: 1983 AACS.

**R 408.13715**  
Source: 1983 AACS.

**R 408.13716**  
Source: 1983 AACS.

**R 408.13717**  
Source: 1997 AACS.

**R 408.13718**  
Source: 1997 AACS.

**R 408.13721**  
Source: 1983 AACS.

**R 408.13722**  
Source: 1997 AACS.

**R 408.13731**  
Source: 1988 AACS.

**R 408.13732**  
Source: 1983 AACS.

**R 408.13733**  
Source: 1983 AACS.

**R 408.13734**  
Source: 1983 AACS.

**R 408.13735**  
Source: 1983 AACS.

**R 408.13736**  
Source: 1997 AACS.

**PART 38. HAND AND PORTABLE POWERED TOOLS**

**R 408.13801**  
Source: 1979 AC.

**R 408.13804**  
Source: 1979 AC.

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- R 408.13805**  
Source: 1979 AC.
- R 408.13806**  
Source: 1979 AC.
- R 408.13807**  
Source: 1979 AC.
- R 408.13808**  
Source: 1979 AC.
- R 408.13811**  
Source: 1993 AACS.
- R 408.13812**  
Source: 1993 AACS.
- R 408.13821**  
Source: 1983 AACS.
- R 408.13822**  
Source: 1983 AACS.
- R 408.13823**  
Source: 1983 AACS.
- R 408.13824**  
Source: 1979 AC.
- R 408.13831**  
Source: 1979 AC.
- R 408.13832**  
Source: 1997 AACS.
- R 408.13833**  
Source: 1979 AC.
- R 408.13834**  
Source: 1979 AC.
- R 408.13835**  
Source: 1979 AC.
- R 408.13836**  
Source: 1979 AC.
- R 408.13838**  
Source: 1979 AC.
- R 408.13839**  
Source: 1979 AC.
- R 408.13840**  
Source: 1979 AC.
- R 408.13841**  
Source: 1979 AC.

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- R 408.13843**  
Source: 1979 AC.
- R 408.13844**  
Source: 1979 AC.
- R 408.13845**  
Source: 1979 AC.
- R 408.13846**  
Source: 1979 AC.
- R 408.13847**  
Source: 1983 AACS.
- R 408.13861**  
Source: 1983 AACS.
- R 408.13863**  
Source: 1979 AC.
- R 408.13864**  
Source: 1979 AC.
- R 408.13865**  
Source: 1983 AACS.
- R 408.13866**  
Source: 1979 AC.
- R 408.13871**  
Source: 1983 AACS.
- R 408.13872**  
Source: 1983 AACS.
- R 408.13873**  
Source: 1983 AACS.
- R 408.13874**  
Source: 1983 AACS.
- R 408.13875**  
Source: 1983 AACS.
- R 408.13876**  
Source: 1997 AACS.
- R 408.13881**  
Source: 1983 AACS.
- R 408.13882**  
Source: 1993 AACS.

**PART 39. DESIGN SAFETY STANDARDS FOR ELECTRICAL SYSTEMS**

- R 408.13901**  
Source: 1994 AACS.



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**R 408.13902**  
Source: 2007 AACs.

**PART 40. SAFETY-RELATED WORK PRACTICES**

**R 408.14001**  
Source: 1992 AACs.

**R 408.14002**  
Source: 1992 AACs.

**R 408.14003**  
Source: 1992 AACs.

**R 408.14004**  
Source: 1992 AACs.

**R 408.14005**  
Source: 1992 AACs.

**R 408.14006**  
Source: 1992 AACs.

**R 408.14007**  
Source: 1992 AACs.

**R 408.14008**  
Source: 1992 AACs.

**R 408.14009**  
Source: 1992 AACs.

**PART 42. FORGING**

**R 408.14201**  
Source: 1979 AC.

**R 408.14203**  
Source: 1979 AC.

**R 408.14204**  
Source: 1989 AACs.

**R 408.14205**  
Source: 1979 AC.

**R 408.14207**  
Source: 1979 AC.

**R 408.14208**  
Source: 1979 AC.

**R 408.14221**  
Source: 1997 AACs.

**R 408.14222**  
Source: 1979 AC.

**R 408.14223**

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Source: 1979 AC.

**R 408.14224**

Source: 1979 AC.

**R 408.14225**

Source: 1997 AACS.

**R 408.14226**

Source: 1979 AC.

**R 408.14227**

Source: 1979 AC.

**R 408.14231**

Source: 1979 AC.

**R 408.14232**

Source: 1989 AACS.

**R 408.14241**

Source: 1979 AC.

**R 408.14242**

Source: 1979 AC.

**R 408.14243**

Source: 1979 AC.

**R 408.14244**

Source: 1979 AC.

**R 408.14245**

Source: 1979 AC.

**R 408.14246**

Source: 1979 AC.

**R 408.14247**

Source: 1979 AC.

**R 408.14248**

Source: 1979 AC.

**R 408.14249**

Source: 1979 AC.

**R 408.14251**

Source: 1979 AC.

**R 408.14252**

Source: 1979 AC.

**R 408.14261**

Source: 1979 AC.

**R 408.14263**

Source: 1979 AC.

**R 408.14265**

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**Source:** 1979 AC.

**R 408.14267**

**Source:** 1979 AC.

**R 408.14268**

**Source:** 1979 AC.

**R 408.14269**

**Source:** 1979 AC.

**R 408.14271**

**Source:** 1979 AC.

**R 408.14273**

**Source:** 1979 AC.

**PART 44. FOUNDRIES**

**R 408.14401**

**Source:** 1979 AC.

**R 408.14405**

**Source:** 1979 AC.

**R 408.14406**

**Source:** 1979 AC.

**R 408.14407**

**Source:** 1979 AC.

**R 408.14408**

**Source:** 1979 AC.

**R 408.14409**

**Source:** 1979 AC.

**R 408.14421**

**Source:** 1988 AACS.

**R 408.14423**

**Source:** 1997 AACS.

**R 408.14425**

**Source:** 1997 AACS.

**R 408.14426**

**Source:** 1997 AACS.

**R 408.14427**

**Source:** 1997 AACS.

**R 408.14431**

**Source:** 1997 AACS.

**R 408.14433**

**Source:** 1988 AACS.

**R 408.14434**

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**Source:** 1979 AC.

**R 408.14436**

**Source:** 1988 AACS.

**R 408.14438**

**Source:** 1997 AACS.

**R 408.14439**

**Source:** 1979 AC.

**R 408.14441**

**Source:** 1979 AC.

**R 408.14443**

**Source:** 1979 AC.

**R 408.14445**

**Source:** 1979 AC.

**R 408.14447**

**Source:** 1997 AACS.

**R 408.14448**

**Source:** 1979 AC.

**R 408.14451**

**Source:** 1988 AACS.

**R 408.14453**

**Source:** 1979 AC.

**R 408.14455**

**Source:** 1979 AC.

**R 408.14457**

**Source:** 1979 AC.

**R 408.14461**

**Source:** 1988 AACS.

**R 408.14463**

**Source:** 1988 AACS.

**R 408.14465**

**Source:** 1988 AACS.

**R 408.14466**

**Source:** 1988 AACS.

**R 408.14468**

**Source:** 1979 AC.

**R 408.14471**

**Source:** 1988 AACS.

**R 408.14473**

**Source:** 1979 AC.

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**R 408.14474**  
Source: 1997 AACS.

**R 408.14475**  
Source: 1979 AC.

**R 408.14476**  
Source: 1979 AC.

**R 408.14477**  
Source: 1997 AACS.

**R 408.14478**  
Source: 1988 AACS.

**R 408.14479**  
Source: 1997 AACS.

**R 408.14481**  
Source: 1997 AACS.

**R 408.14483**  
Source: 1997 AACS.

**R 408.14485**  
Source: 1997 AACS.

**R 408.14486**  
Source: 1997 AACS.

**R 408.14488**  
Source: 1988 AACS.

**R 408.14491**  
Source: 1979 AC.

**R 408.14492**  
Source: 1988 AACS.

**R 408.14493**  
Source: 1988 AACS.

**R 408.14494**  
Source: 1997 AACS.

**R 408.14495**  
Source: 1979 AC.

**R 408.14496**  
Source: 1997 AACS.

**R 408.14497**  
Source: 1979 AC.

**R 408.14498**  
Source: 1979 AC.

**PART 45. DIE CASTING**

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- R 408.14501**  
Source: 1979 AC.
- R 408.14503**  
Source: 1979 AC.
- R 408.14504**  
Source: 1979 AC.
- R 408.14505**  
Source: 1979 AC.
- R 408.14507**  
Source: 1979 AC.
- R 408.14508**  
Source: 1979 AC.
- R 408.14511**  
Source: 1983 AACS.
- R 408.14513**  
Source: 1979 AC.
- R 408.14515**  
Source: 1997 AACS.
- R 408.14517**  
Source: 1997 AACS.

**EQUIPMENT INSTALLATION AND MAINTENANCE**

- R 408.14521**  
Source: 1997 AACS.
- R 408.14522**  
Source: 1979 AC.
- R 408.14523**  
Source: 1979 AC.
- R 408.14525**  
Source: 1979 AC.
- R 408.14527**  
Source: 1979 AC.
- R 408.14533**  
Source: 1979 AC.
- R 408.14535**  
Source: 1979 AC.
- R 408.14541**  
Source: 1979 AC.
- R 408.14543**  
Source: 1979 AC.

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**R 408.14544**  
Source: 1979 AC.

**R 408.14545**  
Source: 1979 AC.

**R 408.14551**  
Source: 1979 AC.

**R 408.14552**  
Source: 1979 AC.

**R 408.14553**  
Source: 1979 AC.

**R 408.14554**  
Source: 1979 AC.

**R 408.14555**  
Source: 1979 AC.

**R 408.14561**  
Source: 1979 AC.

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**BUREAU OF SAFETY AND REGULATION**

**GENERAL INDUSTRY SAFETY STANDARDS COMMISSION**

**PART 49. SLINGS**

**R 408.14901**  
Source: 1979 AC.

**R 408.14903**  
Source: 1979 AC.

**R 408.14904**  
Source: 1979 AC.

**R 408.14905**  
Source: 1979 AC.

**R 408.14906**  
Source: 1979 AC.

**R 408.14907**  
Source: 1979 AC.

**R 408.14908**  
Source: 1979 AC.

**R 408.14911**  
Source: 1979 AC.

**R 408.14912**  
Source: 1979 AC.

**R 408.14913**

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**Source:** 1998-2000 AACS.

**R 408.14921**

**Source:** 1979 AC.

**R 408.14922**

**Source:** 1979 AC.

**R 408.14923**

**Source:** 1998-2000 AACS.

**R 408.14924**

**Source:** 1979 AC.

**R 408.14925**

**Source:** 1979 AC.

**R 408.14926**

**Source:** 1979 AC.

**R 408.14931**

**Source:** 1979 AC.

**R 408.14932**

**Source:** 1979 AC.

**R 408.14933**

**Source:** 1979 AC.

**R 408.14934**

**Source:** 1979 AC.

**R 408.14935**

**Source:** 1979 AC.

**R 408.14941**

**Source:** 1979 AC.

**R 408.14942**

**Source:** 1979 AC.

**R 408.14943**

**Source:** 1979 AC.

**R 408.14944**

**Source:** 1979 AC.

**R 408.14945**

**Source:** 1979 AC.

**R 408.14951**

**Source:** 1979 AC.

**R 408.14952**

**Source:** 1979 AC.

**R 408.14953**

**Source:** 1979 AC.

**R 408.14954**



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Source: 1979 AC.

**R 408.14961**

Source: 1979 AC.

**R 408.14962**

Source: 1979 AC.

**R 408.14963**

Source: 1979 AC.

**R 408.14964**

Source: 1979 AC.

**R 408.14965**

Source: 1979 AC.

**PART 50. TELECOMMUNICATIONS**

**R 408.15001**

Source: 2005 AACS.

**R 408.15002**

Source: 2005 AACS.

**R 408.15003**

Source: 2005 AACS.

**R 408.15004**

Source: 2005 AACS.

**R 408.15005**

Source: 1979 AC.

**PART 51. LOGGING**

**GENERAL PROVISIONS**

**R 408.15101**

Source: 1996 AACS.

**R 408.15105**

Source: 1996 AACS.

**R 408.15106**

Source: 1996 AACS.

**R 408.15107**

Source: 1996 AACS.

**R 408.15108**

Source: 1996 AACS.

**EMPLOYER-EMPLOYEE RESPONSIBILITIES**

**R 408.15111**

Source: 1979 AC.

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**R 408.15112**  
Source: 1989 AACS.

**R 408.15113**  
Source: 1989 AACS.

**R 408.15114**  
Source: 1996 AACS.

**R 408.15116**  
Source: 1989 AACS.

**R 408.15117**  
Source: 1996 AACS.

**R 408.15118**  
Source: 1996 AACS.

**R 408.15119**  
Source: 1996 AACS.

**PERSONAL PROTECTIVE EQUIPMENT**

**R 408.15120**  
Source: 1996 AACS.

**R 408.15121**  
Source: 1979 AC.

**R 408.15122**  
Source: 1996 AACS.

**R 408.15123**  
Source: 1996 AACS.

**R 408.15124**  
Source: 1996 AACS.

**R 408.15125**  
Source: 1996 AACS.

**R 408.15127**  
Source: 1996 AACS.

**PROTECTIVE EQUIPMENT**

**HAND-HELD CHAIN SAWS**

**R 408.15130**  
Source: 1996 AACS.

**R 408.15131**  
Source: 1996 AACS.

**R 408.15132**  
Source: 1997 AACS.

**R 408.15133**

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**Source:** 1997 AACS.

**R 408.15134**

**Source:** 1997 AACS.

**R 408.15135**

**Source:** 1997 AACS.

**R 408.15136**

**Source:** 1996 AACS.

**OTHER SAWS**

**R 408.15137**

**Source:** 1989 AACS.

**R 408.15138**

**Source:** 1989 AACS.

**LOGGING EQUIPMENT**

**R 408.15141**

**Source:** 1979 AC.

**R 408.15142**

**Source:** 1996 AACS.

**R 408.15143**

**Source:** 1989 AACS.

**R 408.15144**

**Source:** 1996 AACS.

**R 408.15145**

**Source:** 1997 AACS.

**R 408.15146**

**Source:** 1996 AACS.

**R 408.15147**

**Source:** 1997 AACS.

**R 408.15148**

**Source:** 1996 AACS.

**R 408.15149**

**Source:** 1996 AACS.

**R 408.15150**

**Source:** 1996 AACS.

**FELLING, LIMBING, BUCKING, AND SKIDDING**

**R 408.15151**

**Source:** 1996 AACS.

**R 408.15152**

**Source:** 1979 AC.

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**R 408.15153**  
Source: 1989 AACS.

**R 408.15154**  
Source: 1989 AACS.

**R 408.15155**  
Source: 1996 AACS.

**R 408.15156**  
Source: 1996 AACS.

**R 408.15157**  
Source: 1996 AACS.

**R 408.15158**  
Source: 1996 AACS.

**R 408.15159**  
Source: 1997 AACS.

**LOADING AND DECKING**

**R 408.15161**  
Source: 1997 AACS.

**R 408.15162**  
Source: 1997 AACS.

**R 408.15163**  
Source: 1997 AACS.

**R 408.15164**  
Source: 1997 AACS.

**R 408.15165**  
Source: 1979 AC.

**R 408.15166**  
Source: 1979 AC.

**R 408.15167**  
Source: 1979 AC.

**TRUCK EQUIPMENT AND OPERATION**

**R 408.15171**  
Source: 1997 AACS.

**R 408.15172**  
Source: 1979 AC.

**R 408.15173**  
Source: 1997 AACS.

**R 408.15174**  
Source: 1997 AACS.

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**R 408.15175**  
Source: 1996 AACS.

**R 408.15180**  
Source: 1989 AACS.

**R 408.15181**  
Source: 1989 AACS.

**PART 52. SAWMILLS**

**R 408.15201**  
Source: 1979 AC.

**R 408.15202**  
Source: 1989 AACS.

**R 408.15203**  
Source: 1989 AACS.

**R 408.15204**  
Source: 1989 AACS.

**R 408.15205**  
Source: 1989 AACS.

**R 408.15206**  
Source: 1979 AC.

**R 408.15207**  
Source: 1989 AACS.

**R 408.15208**  
Source: 1979 AC.

**R 408.15211**  
Source: 1989 AACS.

**R 408.15212**  
Source: 1989 AACS.

**R 408.15213**  
Source: 1979 AC.

**R 408.15221**  
Source: 1979 AC.

**R 408.15222**  
Source: 1989 AACS.

**R 408.15223**  
Source: 1979 AC.

**R 408.15224**  
Source: 1979 AC.

**R 408.15225**  
Source: 1989 AACS.

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**R 408.15226**  
**Source:** 1989 AACCS.

**R 408.15227**  
**Source:** 1979 AC.

**R 408.15228**  
**Source:** 1979 AC.

**R 408.15229**  
**Source:** 1979 AC.

**R 408.15230**  
**Source:** 1979 AC.

**SPECIFIC EQUIPMENT**

**R 408.15231**  
**Source:** 1989 AACCS.

**R 408.15232**  
**Source:** 1989 AACCS.

**R 408.15233**  
**Source:** 1989 AACCS.

**R 408.15234**  
**Source:** 1989 AACCS.

**R 408.15241**  
**Source:** 1989 AACCS.

**R 408.15242**  
**Source:** 1989 AACCS.

**R 408.15243**  
**Source:** 1979 AC.

**R 408.15244**  
**Source:** 1979 AC.

**R 408.15245**  
**Source:** 1979 AC.

**R 408.15246**  
**Source:** 1989 AACCS.

**R 408.15247**  
**Source:** 1989 AACCS.

**R 408.15251**  
**Source:** 1979 AC.

**R 408.15252**  
**Source:** 1979 AC.

**R 408.15253**  
**Source:** 1979 AC.

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**R 408.15254**  
Source: 1979 AC.

**R 408.15261**  
Source: 1979 AC.

**R 408.15262**  
Source: 1989 AACS.

**LOG AND MATERIAL HANDLING AND STORAGE**

**R 408.15271**  
Source: 1979 AC.

**R 408.15272**  
Source: 1979 AC.

**R 408.15273**  
Source: 1989 AACS.

**R 408.15274**  
Source: 1983 AACS.

**R 408.15275**  
Source: 1997 AACS.

**R 408.15276**  
Source: 1979 AC.

**R 408.15277**  
Source: 1997 AACS.

**PART 53. TREE TRIMMING AND REMOVAL**

**R 408.15301**  
Source: 1979 AC.

**R 408.15303**  
Source: 1979 AC.

**R 408.15304**  
Source: 1979 AC.

**R 408.15311**  
Source: 1979 AC.

**R 408.15312**  
Source: 1979 AC.

**R 408.15313**  
Source: 1983 AACS.

**R 408.15314**  
Source: 1979 AC.

**R 408.15315**  
Source: 1979 AC.

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**R 408.15321**  
Source: 1979 AC.

**R 408.15331**  
Source: 1979 AC.

**R 408.15332**  
Source: 1979 AC.

**R 408.15333**  
Source: 1979 AC.

**R 408.15334**  
Source: 1979 AC.

**R 408.15335**  
Source: 1979 AC.

**R 408.15336**  
Source: 1979 AC.

**R 408.15337**  
Source: 1979 AC.

**R 408.15338**  
Source: 1979 AC.

**R 408.15341**  
Source: 1979 AC.

**R 408.15342**  
Source: 1979 AC.

**R 408.15343**  
Source: 1979 AC.

**R 408.15344**  
Source: 1979 AC.

**R 408.15345**  
Source: 1979 AC.

**R 408.15346**  
Source: 1979 AC.

**R 408.15347**  
Source: 1979 AC.

**R 408.15348**  
Source: 1979 AC.

**R 408.15351**  
Source: 1979 AC.

**R 408.15352**  
Source: 1979 AC.

**R 408.15353**  
Source: 1979 AC.



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**R 408.15354**  
Source: 1979 AC.

**R 408.15355**  
Source: 1979 AC.

**R 408.15356**  
Source: 1979 AC.

**R 408.15357**  
Source: 1979 AC.

**R 408.15358**  
Source: 1979 AC.

**R 408.15359**  
Source: 1979 AC.

**R 408.15360**  
Source: 1979 AC.

**R 408.15361**  
Source: 1979 AC.

**R 408.15362**  
Source: 1979 AC.

**R 408.15363**  
Source: 1979 AC.

**PART 54. POWERED GROUNDSKEEPING EQUIPMENT**

**R 408.15401**  
Source: 1979 AC.

**R 408.15403**  
Source: 1979 AC.

**R 408.15404**  
Source: 1979 AC.

**R 408.15405**  
Source: 1979 AC.

**R 408.15406**  
Source: 1979 AC.

**R 408.15411**  
Source: 1983 AACS.

**R 408.15412**  
Source: 1979 AC.

**R 408.15413**  
Source: 1983 AACS.

**R 408.15414**  
Source: 1979 AC.

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**R 408.15415**  
Source: 1983 AACS.

**R 408.15416**  
Source: 1983 AACS.

**R 408.15421**  
Source: 1997 AACS.

**R 408.15422**  
Source: 1983 AACS.

**R 408.15423**  
Source: 1997 AACS.

**R 408.15424**  
Source: 1997 AACS.

**R 408.15425**  
Source: 1997 AACS.

**R 408.15426**  
Source: 1979 AC.

**R 408.15427**  
Source: 1979 AC.

**R 408.15428**  
Source: 1979 AC.

**R 408.15429**  
Source: 1983 AACS.

**R 408.15431**  
Source: 1997 AACS.

**R 408.15442**  
Source: 1979 AC.

**R 408.15443**  
Source: 1979 AC.

**R 408.15444**  
Source: 1979 AC.

**R 408.15451**  
Source: 1979 AC.

**R 408.15452**  
Source: 1983 AACS.

**R 408.15461**  
Source: 1983 AACS.

**PART 55. EXPLOSIVES**

**R 408.15501**  
Source: 1998-2000 AACS.

**PART 56. STORAGE AND HANDLING OF LIQUEFIED PETROLEUM GASES**

**R 408.15601**  
Source: 1998-2000 AACS.

**PART 57. OIL AND GAS DRILLING AND SERVICING OPERATIONS**

**R 408.15701**  
Source: 1989 AACS.

**R 408.15703**  
Source: 1989 AACS.

**R 408.15704**  
Source: 1989 AACS.

**R 408.15705**  
Source: 1989 AACS.

**R 408.15706**  
Source: 1989 AACS.

**R 408.15707**  
Source: 1989 AACS.

**R 408.15708**  
Source: 1989 AACS.

**R 408.15711**  
Source: 1989 AACS.

**R 408.15712**  
Source: 1989 AACS.

**R 408.15713**  
Source: 1989 AACS.

**R 408.15714**  
Source: 1979 AC.

**R 408.15715**  
Source: 1989 AACS.

**R 408.15716**  
Source: 1979 AC.

**R 408.15717**  
Source: 1979 AC.

**R 408.15718**  
Source: 1989 AACS.

**R 408.15719**  
Source: 1989 AACS.

**R 408.15721**  
Source: 1989 AACS.

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**R 408.15722**  
Source: 1989 AACS.

**R 408.15723**  
Source: 1989 AACS.

**R 408.15725**  
Source: 1989 AACS.

**R 408.15726**  
Source: 1989 AACS.

**EQUIPMENT**

**R 408.15731**  
Source: 1989 AACS.

**R 408.15732**  
Source: 1989 AACS.

**R 408.15733**  
Source: 1979 AC.

**R 408.15734**  
Source: 1989 AACS.

**R 408.15735**  
Source: 1979 AC.

**R 408.15736**  
Source: 1989 AACS.

**R 408.15737**  
Source: 1994 AACS.

**R 408.15738**  
Source: 1979 AC.

**R 408.15739**  
Source: 1989 AACS.

**R 408.15740**  
Source: 1979 AC.

**R 408.15741**  
Source: 1989 AACS.

**R 408.15742**  
Source: 1979 AC.

**R 408.15743**  
Source: 1989 AACS.

**R 408.15744**  
Source: 1989 AACS.

**R 408.15745**  
Source: 1989 AACS.

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- R 408.15751**  
Source: 1979 AC.
- R 408.15752**  
Source: 1979 AC.
- R 408.15753**  
Source: 1989 AACS.
- R 408.15754**  
Source: 1989 AACS.
- R 408.15755**  
Source: 1997 AACS.
- R 408.15756**  
Source: 1989 AACS.
- R 408.15757**  
Source: 1989 AACS.

**OTHER SPECIAL SERVICE OPERATIONS**

- R 408.15761**  
Source: 1989 AACS.
- R 408.15762**  
Source: 1989 AACS.
- R 408.15763**  
Source: 1997 AACS.
- R 408.15764**  
Source: 1989 AACS.
- R 408.15765**  
Source: 1997 AACS.
- R 408.15766**  
Source: 1997 AACS.
- R 408.15767**  
Source: 1997 AACS.
- R 408.15768**  
Source: 1989 AACS.
- R 408.15769**  
Source: 1997 AACS.
- R 408.15770**  
Source: 1979 AC.
- R 408.15771**  
Source: 1989 AACS.

**PART 58. AERIAL WORK PLATFORMS**  
**GENERAL PROVISIONS**

- R 408.15801. Scope.**  
Rule 5801. (1) These rules apply to the construction, operation, maintenance, and inspection of aerial work platforms with

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either manual or powered mobility. These rules do not apply to construction operations as defined by 1974 PA 154, MCL 408.1001 to MCL 408.1094.

(2) Fire fighting equipment and powered industrial trucks are not included in these rules but are provided for in general industry safety standards Part 74, "Fire Fighting," R 408.17401 to R 408.17464, and Part 21. "Powered Industrial Trucks," R 408.12101 to R 408.12193.

History: 1954 ACS 82, Eff. Dec. 31, 1974; 1979 AC; 2008 MR 11, Eff. June 18, 2008.

**R 408.15802 Equipment covered.**

Rule 5802. These rules apply to equipment that has a primary function of elevating personnel, together with their tools and necessary materials, on a platform, which is mechanically positioned. The units covered are described by the following American National Standards Institute Standards:

(a) ANSI standard A92.2 2002 edition, "Vehicle-Mounted Elevating and Rotating Aerial Devices," which is adopted by reference in R 408.15810. This standard applies to vehicle-mounted devices installed on commercial chassis and covers the following type of units (See figure 1):

- (i) Extensible boom aerial devices
- (ii) Aerial ladders.
- (iii) Articulating boom aerial devices.
- (iv) Vertical towers.
- (v) A combination of any of the equipment specified in paragraphs (i) to (iv) of this subdivision.

(b) ANSI standard A92.3 2006 edition, "Manually Propelled Elevating Aerial Platforms", which is adopted by reference in R 408.15810. This standard applies to work platforms which are manually propelled, which are vertically adjustable by manual or powered means, and which may be towed or manually moved horizontally on wheels or casters that are an integral part of the work platform base. (See figure 2).

(c) ANSI standard A92.5 2006 edition, "Boom-Supported Elevating Work Platforms", which is adopted by reference in R 408.15810. This standard applies to all integral frame, boom-supported elevating work platforms which telescope, articulate, rotate, or extend beyond the base dimensions. (See figure 3).

(d) ANSI standard A92.6 1999 edition, "Self-Propelled Elevating Work Platforms," which is adopted by reference in R 408.15810. This standard applies to self-propelled vertically adjustable integral chassis work platforms. Such work platforms are power operated with primary controls for all movement operated from the platform. (See figure 4).

History: 2008 MR 11, Eff. June 18, 2008.

**R 408.15803 Definitions; A to I.**

Rule 5803. (1) "Aerial device" or "aerial work platform" means an entire device that is designed and manufactured to raise personnel to an elevated work position on a platform supported by scissors, masts, or booms; or any vehicle-mounted device, telescoping or articulating or both, which is used to position an employee.

(2) "Aerial ladder" means an aerial device consisting of a single- or multiple-section extensible ladder.

(3) "Articulating boom platform" means an aerial device with 2 or more hinged boom sections.

(4) "Authorized person" means a person who is approved and assigned to perform specific types of duties by the employer and who is qualified to perform those duties because of his or her training or experience.

(5) "Commercial chassis" means a vehicle that is built for over-the-road (roadway) travel.

(6) "Exposed power line" means a power line that is not isolated or guarded.

(7) "Extensible boom platform" means an aerial device, except ladders, with a telescopic or extensible boom. A telescopic derrick with a personnel platform attachment shall be considered to be an extensible boom platform when used with a personnel platform.

(8) "Insulated aerial device" means an aerial device designed for work on or near energized lines and apparatus.

History: 1954 ACS 82, Eff. Dec. 31, 1974; 1979 AC; 1988 MR 1, Eff. Jan. 27, 1988; 2008 MR 11, Eff. June 18, 2008.

**R 408.15804. Definitions M to Q.**

Rule 5804. (1) "Mechanically positioned" means that the elevating assembly, whether a mechanical (cable or chain), hydraulic, pneumatic, electric or other powered mechanism, is used to raise or lower the platform.

(2) "Mobile unit" means a combination of an aerial device, vehicle and related equipment.

(3) "Override" means to transfer or to take away platform control functions by another station.

(4) "Platform" means the portion of an aerial work platform, such as a bucket, basket, stand, cage, or the equivalent, that is designed to be occupied by personnel.

(5) "Power line" means a distribution or transmission electrical line.

(6) "Qualified line clearance tree trimmer" means an employee trained to work in proximity of energized power

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transmission and distribution lines. An employee in a training program is included in this definition.

(7) "Qualified lineman" means an employee trained and authorized to work on or near energized lines. An employee in a training program is included in this definition.

(8) "Qualified person" means a person who possesses a recognized degree, certificate, professional standing, or skill and who, by knowledge, training, and experience, has demonstrated the ability to deal with problems relating to the subject matter, the work, or the project.

(9) "Qualified telecommunications employee" means an employee trained to work on communication lines in the proximity of energized power transmission and distribution lines.

History: 1954 ACS 82, Eff. Dec. 31, 1974; 1979 AC; 2008 MR 11, Eff. June 18, 2008.

**R 408.15805 Definitions; S to Y.**

Rule 5805. (1) "Safety factor" means the ratio of the braking strength of a piece of material or object to maximum designed load or stress applied when in use.

(2) "Vehicle" means any carrier that is not manually propelled.

(3) "Vehicle-mounted elevating and rotating work platform" means an aerial device or aerial work platform.

(4) "Vertical tower" means an aerial device designed to elevate a platform in a substantially vertical axis on a level surface.

(5) "Yield point" means the point where material begins to take a permanent deformation.

History: 1954 ACS 82, Eff. Dec. 31, 1974; 1979 AC; 2008 MR 11, Eff. June 18, 2008.

R 408.15810. Adoption of standards by reference; access to other MIOSHA rules.

Rule 5810. (1) The standards specified in this rule, except for the standards specified in subrule (2) of this rule, are adopted by reference.

(a) The following ANSI standards are available from Global Engineering Documents, 15 Inverness Way East, Englewood, Colorado, 80112, USA, telephone number: 1-800-854-7179 or via the internet at web-site: <http://global.ihs.com>; at a cost, as of the time of adoption of these rules, as stated in this subrule:

(i) American National Standard Institute Standard ANSI A92.2, "Standard for Vehicle-Mounted Elevating and Rotating Work Platforms," 1969 edition. Cost: \$20.00.

(ii) American National Standard Institute Standard ANSI A92.2, "Vehicle-Mounted Elevating and Rotating Aerial Devices," 2002 edition. Cost: \$68.00.

(iii) American National Standard Institute Standard ANSI A92.3, "Manually Propelled Elevating Work Platforms", 1990 edition. Cost: \$68.00.

(iv) American National Standard Institute Standard ANSI A92.3, "Manually Propelled Elevating Aerial Platforms", 2006 edition. Cost: \$68.00.

(v) American National Standard Institute Standard ANSI A92.5, "Boom-Supported Elevating Work Platforms", 1992 edition. Cost: \$68.00.

(vi) American National Standard Institute Standard ANSI A92.5, "Boom-Supported Elevating Work Platforms", 2006 edition. Cost: \$68.00.

(vii) American National Standard Institute Standard ANSI A92.6, "Self-Propelled Elevating Work Platforms," 1999 edition. Cost: \$68.00.

(b) Part 6: Temporary Traffic Control of the Manual on Uniform Traffic Control Devices for Streets and Highways, 2005 Michigan MUTCD/2003 Federal Edition, is adopted by reference in these rules and is available at no cost from the Michigan Department of Transportation via the internet at website: [www.michigan.gov/mdot](http://www.michigan.gov/mdot). The entire 2005 MMUTCD may be purchased from Michigan Technological University, Local Technical Assistance Program, Room 309 Dillman Building, 1400 Townsend Drive, Houghton, Michigan, 49931; (906) 487-2102; at a cost of \$135.00 as of the time of publication of these rules.

(c) The standards adopted in subrule 1(a) and (b) of this rule are also available for inspection at the Department of Labor and Economic Growth, MIOSHA Standards Section, 7150 Harris Drive, P.O. Box 30643, Lansing, Michigan, 48909-8143.

(d) Copies of the standards adopted in subrule 1(a) and (b) of this rule may be obtained quickest from the publisher or may also be obtained from the Department of Labor and Economic Growth, MIOSHA Standards Section, 7150 Harris Drive, P.O. Box 30643, Lansing, Michigan, 48909-8143, at the cost charged in subrule 1(a) and (b) of this rule, plus \$20 for shipping and handling.

(2) The following Michigan Occupational Safety and Health Standards are referenced in these rules. Up to 5 copies of these standards may be obtained at no charge from the Michigan Department of Labor and Economic Growth, MIOSHA Standards Section, 7150 Harris Drive, P.O. Box 30643, Lansing, Michigan, 48909-8143 or via the internet at web-site: [www.michigan.gov/mioshastandards](http://www.michigan.gov/mioshastandards). For quantities greater than 5, the cost, as of the time of adoption of these rules, is 4 cents per page.

(a) General Industry Safety Standard Part 7. Guards for Power Transmission, R 408.10701 to R 408.10765.

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- (b) General Industry Safety Standard Part 21. Powered Industrial Trucks, R 408.12101 to R 408.12193.
- (c) General Industry Safety Standard Part 33. Personal Protective Equipment, R 408.13301 to R 408.13398.
- (d) General Industry Safety Standard Part 53. Tree Trimming and Removal, R 408.15301 to R 408.15363,
- (e) General Industry Safety Standard Part 74. Fire Fighting, R 408.17401 to R 408.17464.
- (f) Construction Safety Standard Part 22. Signals, Signs, Tags, and Barricades, R 408.42201 to R 408.42243.
- (g) Construction Safety Standard Part 45. Fall Protection, R 408.44501 to R 408.44502.

History: 2008 MR 11, Eff. June 18, 2008.

**R 408.15811. Employer responsibility.**

Rule 5811. An employer shall do all of the following:

- (a) Provide training to employees in the operations, hazards, safeguards, and safe practices described in these rules by a qualified person.
- (b) Ensure that employees do not engage in the activities to which these rules apply until such employees have received training.
- (c) Maintain an aerial device in a condition free of known defects and hazards, which could cause an injury.

History: 1954 ACS 82, Eff. Dec. 31, 1974; 1979 AC; 2008 MR 11, Eff. June 18, 2008.

**R 408.15812. Employee responsibility.**

Rule 5812. An employee shall do both of the following:

- (a) Operate an aerial device only after being trained in the operations, hazards, safeguards, and safe practices required by these rules by a qualified person and authorized by the employer.
- (b) Report known defects and hazards concerning an aerial device to the supervisor.

History: 2008 MR 11, Eff. June 18, 2008.

**R 408.15815. Training; permits.**

Rule 5815. (1) An employer shall provide each employee who will operate the aerial work platform with instruction and training regarding the equipment before a permit is issued or reissued. Such instruction and training shall include the following:

- (a) Instruction by a qualified person in the intended purpose and function of each of the controls.
- (b) Training by a qualified person or reading and understanding the manufacturer's or owner's operating instructions and safety rules.
- (c) Understanding by reading or by having a qualified person explain, all decals, warnings, and instructions displayed on the aerial work platform.
- (d) Reading and understanding the provisions of this subrule and subrules (1) to (9) of this rule or be trained by a qualified person on their content.
- (2) An employer shall provide the operator of an aerial work platform with an aerial work platform permit.
- (3) The requirements of subrule (1)(a), (b), (c), and (d) of this rule shall be met before an employee is issued a permit.
- (4) A permit shall be carried by the operator or be available at the job site/work place and shall be displayed upon request by a department of labor and economic growth representative.
- (5) A permit shall indicate the type of aerial work platforms an operator has been trained on and is qualified to operate.
- (6) A permit to operate an aerial work platform is valid only when performing work for the employer who issued the permit.

A permit shall be issued for a period of not more than 3 years.

(7) A permit shall contain all of the following information (see sample permit):

- (a) Firm name.
- (b) Operator's name.
- (c) Name of issuing authority. (Authorized by).
- (d) The following types of aerial work platforms the operator is authorized to operate:
  - (i) Vehicle-mounted elevating work platform such as:
    - (1) Extensible boom aerial devices.
    - (2) Aerial ladders.
    - (3) Articulating boom aerial devices.
    - (4) Vertical towers.
  - (ii) Manually propelled elevating work platforms.
  - (iii) Boom-supported elevating work platforms.
  - (iv) Self-propelled elevating work platforms.
- (e) Date issued.



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- (f) Expiration date.  
(8) A sample permit is set forth as follows:

**SAMPLE PERMIT**

AERIAL WORK PLATFORM PERMIT			
(Firm Name)			
_____			
(Employee Name)			
_____			
Type of aerial work platform to operate:			
Date Issued	Type	Authorized by:	Expiration Date:
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

(9) The manufacturer's operating instructions and safety rules shall be provided and maintained in a legible manner on each unit by the employer.

History: 2008 MR 11, Eff. June 18, 2008.

**R 408.15817. Preoperational procedures; platform inspections.**

Rule 5817. (1) An operator shall inspect an aerial work platform for defects that would affect its safe operation and use before it is used on each work shift. The visual inspection shall consist of all of the following procedures:

- (a) Visual inspection for all of the following:
  - (i) Cracked welds.
  - (ii) Bent or broken structural members.
  - (iii) Hydraulic or fuel leaks.
  - (iv) Damaged controls and cables.
  - (v) Loose wires.
  - (vi) Tire condition.
  - (vii) Fuel and hydraulic fluid levels.
  - (viii) Slippery conditions on the platform.
- (b) Operate all platform and ground controls to ensure that they perform their intended function.
- (2) Before the aerial work platform is used, and during use on the job site/work place, the operator shall inspect for all of the following:
  - (a) Ditches.
  - (b) Drop-offs.
  - (c) Holes.
  - (d) Bumps and floor obstructions.
  - (e) Debris.
  - (f) Overhead obstructions.
  - (g) Power lines.
  - (h) Similar conditions to those specified in subdivisions (a) to (g) of this subrule. The area around the aerial work platform shall also be inspected to assure clearance for the platform and other parts of the unit.
- (3) All unsafe items found as a result of the inspection of the aerial work platform or work area shall be corrected before further use of the aerial work platform.
- (4) The employer shall ensure before the commencement of operations near power lines and when the clearances cannot be maintained as specified in Tables 1-3, that the owner, owner representative, or utility are notified with all pertinent information about the job.
- (5) Any overhead wire shall be considered to be an energized line until the owner of the line, his or her authorized representative, or a utility representative assures one of the following:

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- (a) The line is de-energized and has been visibly grounded.
  - (b) The line is insulated for the system voltages and the task will not compromise the insulation of the conductor and/or cause an electrical hazard.
- History: 2008 MR 11, Eff. June 18, 2008.

**CONSTRUCTION, TESTING, AND USE PROVISIONS**

**R 408.15821. Construction, modification, and remounting.**

Rule 5821. (1) Aerial work platforms modified, remounted, designed, constructed, and tested after December 28, 1974, but before the effective date of this rule, shall be in compliance with the requirements of the following applicable American National Standards Institute Standards:

- (a) ANSI standard A92.2, "Standard for Vehicle-Mounted Elevating and Rotating Work Platforms," 1969 edition.
  - (b) ANSI standard A92.3, "Manually Propelled Elevating Work Platforms", 1990 edition.
  - (c) ANSI standard A92.5, "Boom-Supported Elevating Work Platforms", 1992 edition.
  - (d) ANSI standard A92.6, "Self-Propelled Elevating Work Platforms", 1999 edition.
- These standards are adopted by reference in R 408.15810.

(2) A permanent label or tag shall be affixed to an aerial work platform modified, remounted, designed, constructed, or tested after March 28, 1975, but before the effective date of these rules, certifying compliance with subrule (1) of this rule.

(3) Aerial work platforms modified, remounted, designed, constructed, and tested, after January 1, 2007, shall be in compliance with the requirements of the following applicable American National Standards Institute Standards:

- (a) ANSI standard A92.2, "Vehicle-Mounted Elevating and Rotating Aerial Devices", 2002 edition.
- (b) ANSI standard A92.3, "Manually Propelled Elevating Aerial Platforms", 2006 edition.
- (c) ANSI standard A92.5, "Boom-Supported Elevating Work Platforms", 2006 edition.
- (d) ANSI standard A92.6, "Self-Propelled Elevating Work Platforms", 1999 edition.

These standards are adopted by reference in R 408.15810.

(4) An aerial work platform shall bear a permanent plate stating the designed rating capacity.

(5) An aerial work platform shall be mounted on a vehicle capable of sustaining, or reinforced to sustain, the imposed load. The vehicle shall be a stable support for the aerial device.

(6) The lifting and outrigger system of an aerial work platform shall be equipped with a means, such as but not limited to, a pilot operated check valve to ensure that the system will not permit the work platform to drop in a free fall in event of a power or hydraulic line failure.

(7) Aerial work platforms shall not be field-modified for uses other than those intended by the manufacturer, unless the modification has been certified in writing by the manufacturer or by any other equivalent entity, such as a nationally recognized testing laboratory, to be in compliance with the applicable ANSI standard and this rule, and to be at least as safe as the equipment was before modification.

History: 1954 ACS 82, Eff. Dec. 31, 1974; 1954 ACS 89, Eff. Nov. 13, 1976; 1979 AC; 2008 MR 11, Eff. June 18, 2008.

**R 408.15823 Rescinded.**

History: 1954 ACS 82, Eff. Dec. 31, 1974; 1954 ACS 89, Eff. Nov. 13, 1976; 1979 AC; rescinded 2008 MR 11, Eff. June 18, 2008.

**R 408.15824 Rescinded.**

History: 1954 ACS 82, Eff. Dec. 31, 1974; 1979 AC; rescinded MR 11, Eff. June 18, 2008

**R 408.15825 Controls.**

Rule 5825. (1) All of the following information shall be clearly marked in a permanent manner on each aerial work platform:

- (a) Special workings, cautions, or restrictions necessary for operation.
  - (b) Rated work load.
  - (c) A clear statement if the aerial work platform is electrically insulated.
- (2) Directional controls shall be in compliance with all of the following provisions:
- (a) Be of the type that will automatically return to the off or neutral position when released.
  - (b) Be protected against inadvertent operation.
  - (c) Be clearly marked as to their intended function.

(3) An overriding control shall be provided in the platform which must be continuously activated for platform directional

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controls to be operational and which automatically returns to the off position when released.

(4) Articulating, extensible boom platforms, or both, primarily designed as personnel carriers, shall be equipped with both upper and lower controls.

(5) Upper controls shall be located within reach of the operator.

(6) Aerial work platforms shall be equipped with emergency controls at ground level.

(7) Emergency ground level controls shall be clearly marked as to their intended function and be capable of overriding the platform controls.

(8) Rotating shafts, gears, and other moving parts that are exposed to contact shall be guarded as prescribed in general industry safety standard, Part 7. "Guards for Power Transmission", R 408.10701 to R 408.10765.

(9) Attachment points shall be provided for fall protection devices for personnel who occupy the platform on aerial work platforms described in the provisions of R 408.15802 (a) and (c). (See figures 1 and 3).

History: 1954 ACS 82, Eff. Dec. 31, 1974; 1954 ACS 89, Eff. Nov. 13, 1976; 1979 AC; 2008 MR 11, Eff. June 18, 2008.

**R 408.15830. Rescinded.**

History: 1988 MR 1, Eff. Jan. 27, 1988; rescinded 2008 MR 11, Eff. June 18, 2008.

**R 408.15831. Inspection, maintenance; testing.**

Rule 5831. (1) An employer shall comply with all of the following requirements:

(a) Each aerial work platform shall be inspected, maintained, repaired, and kept in proper working condition in accordance with the manufacturers or owner's operating or maintenance and repair manual or manuals.

(b) Any aerial work platform found not to be in a safe operating condition shall be removed from service until repaired. All repairs shall be made by an authorized person in accordance with the manufacturer's or owner's operating or maintenance and repair manual or manuals.

(c) If the aerial work platform is rated and used as an insulated aerial device, the electrical insulating components shall be tested for compliance with the rating of the aerial work platform in accordance with ANSI standard A92.2 2002 edition "Vehicle-Mounted Elevating and Rotating Aerial Devices," which is adopted by reference in R 408.15810. Testing shall comply with all of the following provisions:

(i) The test shall be performed not less than annually.

(ii) Written, dated, and signed test reports shall be made available by the employer for examination by a department representative.

(iii) The insulated portion of an aerial device shall not be altered in any manner that might reduce its insulating value.

(d) All danger, caution, and control markings and operational plates shall be legible and not obscured.

History: 1954 ACS 82, Eff. Dec. 31, 1974; 1954 ACS 89, Eff. Nov. 13, 1976; 1988 MR 1, Eff. Jan. 27, 1988; 2008 MR 11, Eff. June 18, 2008.

**R 408.15832. Electrical hazards.**

Rule 5832. (1) The employer shall ensure that an aerial work platform shall be operated so that the distances from energized power lines and equipment prescribed in Table 1 are maintained, except for the following:

(a) As prescribed in subrule (2) of this rule addressing tree trimming.

(b) As prescribed in subrule (3) of this rule addressing telecommunications.

(c) Where insulating barriers are not a part of or an attachment to the aerial device that has been erected to prevent physical contact with the lines.

(2) A qualified lineman or a qualified line clearance tree trimmer, as prescribed in General Industry Safety Standard Part 53 "Tree Trimming and Removal" R 408.15301 to R 408.15363, shall maintain distances as prescribed in Table 2 when performing work from an aerial work platform on or near an exposed power line unless any of the following conditions exist:

(a) The employee is insulated or guarded from the energized part by gloves or gloves and sleeves, as provided for and prescribed in General Industry Safety Standard Part 33 "Personal Protective Equipment," R 408.13301 to R 408.13398.

(b) The employee is insulated, isolated, or guarded from any other conductive part.

(c) The energized part is insulated from the employee.

(3) A qualified telecommunications employee shall maintain the distances prescribed in Table 3 when working from an aerial lift, unless the employee is insulated, isolated, or guarded from any other conductive part or the energized part is insulated from the employee.

(4) Employees shall use insulated bucket, gloves, and sleeves that are rated at more than the voltage to be worked on or that with which they might come into contact, to comply with subrules (2) and (3) of this rule.

(5) The clearances, as prescribed in Tables 1-3, do not apply when the owner of the line or his or her authorized

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representative, or a utility representative assures that the conductor is insulated for the system voltages and the task will not compromise the insulation of the conductor and/or cause an electrical hazard.

(6) Tables 1, 2, and 3 read as follows:

Table 1  
Minimum Clearance Distances for Equipment

Voltage	Clearance With Boom Raised	Clearance Boom Lowered and No Load in Transit
To 50 kV	10 feet	4 feet
Over 50 kV	10 feet + .4 inch per each 1 kV over 50 kV	10 feet
50 to 345 kV	--	10 feet
346 to 750 kV	--	15 feet

Table 2  
Minimum Working Distances for  
Qualified Line-Clearance Tree Trimmers and Qualified Linemen

Voltage Range Phase to Phase (kilovolts)	Minimum Working Distance
2.1 to 15.0	2 feet 0 inches (61 cm)
15.1 to 35.0	2 feet 4 inches (71 cm)
35.1 to 46.0	2 feet 6 inches (76 cm)
46.1 to 72.5	3 feet 0 inches (91 cm)
72.6 to 121.0	3 feet 4 inches (102 cm)
138.0 to 145.0	3 feet 6 inches (107 cm)
161.0 to 169.0	3 feet 8 inches (112 cm)
230.0 to 242.0	5 feet 0 inches (152 cm)
345.0 to 362.0	*7 feet 0 inches (213 cm)
550.0 to 552.0	*11 feet 0 inches (335 cm)
700.0 to 765.0	*15 feet 0 inches (457 cm)

\*Note: For 345-362 kV., 500-552 kV., and 700-765 kV., the minimum working distance and the minimum clear hot stick distance may be reduced that such distances are not less than the shortest distance between the energized part and a grounded surface.

Table 3  
Minimum Approach Distances for  
Qualified Telecommunications Employees

Voltage Range (Nominal Phase to Phase)	Minimum Approach Distances
300 V and less	1 foot - 0 inches (30.5 cm)
Over 300 V, not over 750 V	1 foot - 6 inches (46 cm)
Over 750 V, not over 2 kV	2 feet - 0 inches (61 cm)

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Over 2 kV, not over 15 kV	3 feet - 0 inches (91 cm)
Over 15 kV, not over 37 kV	3 feet – 6 inches (107 cm)
Over 37 kV, not over 87.5 kV	4 feet – 0 inches (122 cm)
Over 87.5 kV, not over 121 kV	4 feet – 6 inches (137 cm)
Over 121 kV, not over 140 kV	—

History: 1954 ACS 82, Eff. Dec. 31, 1974; 1954 ACS 89, Eff. Nov. 13, 1976; 1979 AC; 1979 ACS 14, Eff. June 2, 1983; 1988 MR 1, Eff. Jan. 27, 1988; 2008 MR 11, Eff. June 18, 2008.

**R 408.15833 Vehicles; traffic control.**

Rule 5833. (1) Before moving a vehicle supporting an aerial ladder for highway travel, employees shall secure ladders in the lower position, and shall use the manually operated device at the base of the ladder, or other effective means to prevent elevation or rotation of the ladder.

(2) Before moving a vehicle supporting an aerial lift for travel, employees shall inspect the boom to ensure that it is properly cradled and the outriggers are in the stowed position, except as provided in subrule (3) of this rule.

(3) When a boom is elevated with employees in working position, the vehicle supporting an aerial device shall not be moved unless the equipment is specifically designed for this type of operation and meets the requirements of R 408.15821.

(4) Before and during travel, except as provided for horizontal movement in R 408.15839 (9), an operator shall do all of the following:

(a) Inspect to see that booms, platforms, aerial ladders, or towers are properly cradled or secured.

(b) Ensure that outriggers are in a stored position.

(c) Limit travel speed according to the following factors:

(i) Condition of the surface.

(ii) Congestion.

(iii) Slope.

(iv) Location of personnel.

(v) Other hazards.

(5) An employer shall ensure that operators of an aerial work platform over or adjacent to any public or private roadway maintain adequate clearances of all portions of the aerial work platform to prevent being struck by vehicular traffic.

(6) When aerial work platforms are in use, all traffic control requirements shall be in compliance with Part 6 of the 2005 Michigan Manual on Uniform Traffic Control Devices (MMUTCD), which is adopted in R 408.15810, and Construction Safety Part 22. Signals, Signs, Tags, and Barricades, R 408.42201 to R 408.42243.

History: 1954 ACS 89, Eff. Nov. 13, 1976; 1979 AC; 2008 MR 11, Eff. June 18, 2008.

**R 408.15836. Fall protection.**

Rule 5836 (1) The employer shall provide a safety harness that has a lanyard which is in compliance with construction safety standard Part 45. "Fall Protection", R 408.44501 to R 408.44502 and which is affixed to attachment points provided and approved by the manufacturer. Any occupant of an aerial work platform described in the provisions of R 408.15802(a) and (c) and figures 1 and 3 shall use a safety harness. A fall arrest system shall only be used where the aerial lift is designed to withstand the vertical and lateral loads caused by an arrested fall.

(2) An employee may use a body belt with a restraint device with the lanyard and the anchor arranged so that the employee is not exposed to any fall distance. An employee is required to use a restraint device where the aerial lift cannot withstand the vertical and lateral loads imposed by an arrested fall.

(3) An employee shall be prohibited from belting off to an adjacent pole, structure, or equipment while working from an aerial work platform.

(4) An employer shall not allow employees to exit an elevated aerial work platform, except where elevated work areas are inaccessible or hazardous to reach. Employees may exit the platform with the knowledge and consent of the employer. When employees exit to unguarded work areas, fall protection shall be provided and used as prescribed in construction safety standard Part 45. "Fall Protection", R 408.44501 to R 408.44502.

(5) An employer shall provide for prompt rescue of employees in the event of a fall or shall assure that employees are able to rescue themselves.

History: 2008 MR 11, Eff. June 18, 2008.

**R 408.15839. Operating procedures.**

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Rule 5839 (1) The aerial work platform shall be used only in accordance with the manufacturers or owners operating instructions and safety rules.

(2) The designed rated capacity for a given angle of elevation shall not be exceeded.

(3) A proximity-warning device may be used, but shall not be used to avoid meeting the requirements of this rule.

(4) The manufacturer's rated load capacity shall not be exceeded. The employer shall ensure that the load and its distribution on the platform are in accordance with the manufacturer's specifications. The aerial work platform rated load capacity shall not be exceeded when loads are transferred to the platform at elevated heights.

(5) Only employees, their tools, and necessary materials shall be on or in the platform.

(6) The guardrail system of the platform shall not be used to support any of the following:

(a) Materials.

(b) Other work platforms.

(c) Employees.

(7) Employees shall maintain firm footing on the platform while working on the platform. The use of railings, planks, ladders, or any other devices on the platform for achieving additional height is prohibited.

(8) Fuel gas cylinders shall not be carried on platforms that would allow the accumulation of gases.

(9) Only aerial work platforms that are equipped with a manufacturer's installed platform controls for horizontal movement shall be moved while in the elevated position.

(10) Before and during driving while elevated, an operator of a platform shall do both of the following:

(a) Look in the direction of, and keep a clear view of, the path of travel and make sure that the path is firm and level.

(b) Maintain a safe distance from all of the following:

(i) Obstacles.

(ii) Debris.

(iii) Drop-offs.

(iv) Holes.

(v) Depressions.

(vi) Ramps.

(vii) Overhead obstructions.

(viii) Overhead electrical lines.

(ix) Other hazards to safe elevated travel.

(11) Outriggers or stabilizers, when provided, are to be used in accordance with the manufacturer's instruction. Brakes shall be set and outriggers and stabilizers shall be positioned on pads or a solid surface.

(12) Aerial work platforms shall be elevated only when on a firm and level surface or within the slope limits allowed by the manufacturer's instructions.

(13) A vehicle-mounted aerial work platform (figure 1) shall have its brakes set before elevating the platform.

(14) A vehicle-mounted aerial work platform (figure 1) shall have wheel chocks installed before using the unit on an incline.

(15) Climbers shall not be worn while working from an aerial device unless gaff guards are provided.

(16) Platform gates shall be closed while the platform is in an elevated position.

(17) Altering, modifying, or disabling safety devices or interlocks is prohibited.

(18) Care shall be taken to prevent rope, electric cords, hoses, or the equivalent, from becoming entangled in the aerial platform.

(19) A platform operator shall ensure that the area surrounding the aerial work platform is clear of personnel and equipment before lowering the platform.

(20) The aerial work platform shall not be positioned against another object to steady the platform.

(21) The aerial work platform shall not be operated from a position on a truck, trailer, railway car, floating vessel, scaffold, or similar equipment.

(22) The boom and platform of the aerial work platform shall not be used to move or jack the wheels off the ground unless the machine is designed for that purpose by the manufacturer.

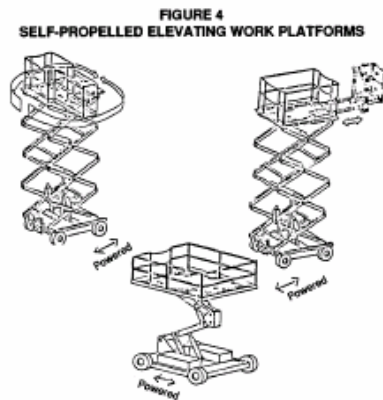
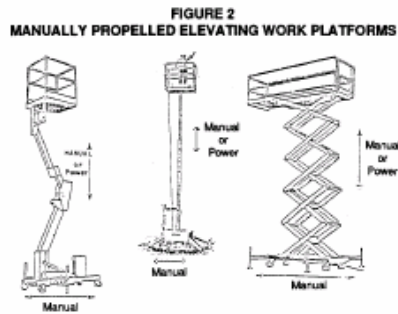
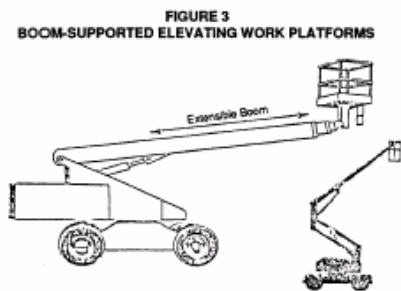
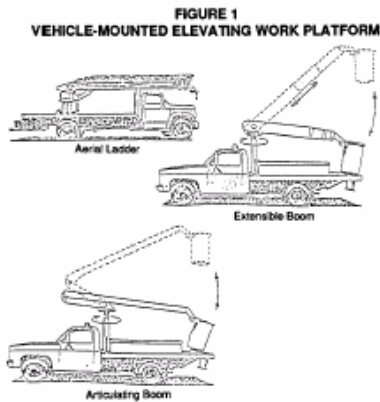
(23) If the platform or elevating assembly becomes caught, snagged, or otherwise prevented from normal motion by adjacent structures or other obstacles so that control reversal does not free the platform, all employees shall exit from the platform before attempts are made to free the platform.

(24) Stunt driving and horseplay are prohibited.

**R 408.15842. Figures.**

Rule 5840. Figures 1, 2, 3, and 4 are as follows:

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History: 2008 MR 11, Eff. June 18, 2008.

**PART 59. HELICOPTERS**

- R 408.15901**  
Source: 1979 AC.
- R 408.15911**  
Source: 1979 AC.
- R 408.15915**  
Source: 1983 AACS.
- R 408.15916**  
Source: 1979 AC.
- R 408.15921**  
Source: 1979 AC.
- R 408.15922**  
Source: 1979 AC.
- R 408.15923**  
Source: 1979 AC.
- R 408.15931**  
Source: 1979 AC.

**PART 62. PLASTIC MOLDING**

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**R 408.16201**  
Source: 1992 AACS.

**R 408.16204**  
Source: 1992 AACS.

**R 408.16205**  
Source: 1979 AC.

**R 408.16206**  
Source: 1992 AACS.

**R 408.16207**  
Source: 1979 AC.

**R 408.16208**  
Source: 1979 AC.

**R 408.16211**  
Source: 1979 AC.

**R 408.16212**  
Source: 1979 AC.

**R 408.16215**  
Source: 1979 AC.

**R 408.16216**  
Source: 1979 AC.

**R 408.16217**  
Source: 1979 AC.

**R 408.16221**  
Source: 1979 AC.

**R 408.16222**  
Source: 1992 AACS.

**R 408.16223**  
Source: 1992 AACS.

**R 408.16224**  
Source: 1979 AC.

**R 408.16225**  
Source: 1992 AACS.

**R 408.16226**  
Source: 1992 AACS.

**R 408.16227**  
Source: 1998-2000 AACS.

**SPECIFIC EQUIPMENT**

**R 408.16231**



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Source: 1992 AACS.

**R 408.16232**

Source: 1992 AACS.

**R 408.16233**

Source: 1979 AC.

**R 408.16234**

Source: 1998-2000 AACS.

**R 408.16235**

Source: 1992 AACS.

**R 408.16236**

Source: 1992 AACS.

**R 408.16237**

Source: 1979 AC.

**R 408.16241**

Source: 1979 AC.

**R 408.16242**

Source: 1992 AACS.

**R 408.16243**

Source: 1992 AACS.

**R 408.16244**

Source: 1979 AC.

**R 408.16245**

Source: 1992 AACS.

**R 408.16246**

Source: 1992 AACS.

**R 408.16247**

Source: 1979 AC.

**R 408.16251**

Source: 1992 AACS.

**PART 63. PULP, PAPER, AND PAPERBOARD MILLS**

**R 408.16301**

Source: 1979 AC.

**R 408.16303**

Source: 1979 AC.

**R 408.16304**

Source: 1979 AC.

**R 408.16305**

Source: 1993 AACS.

**R 408.16306**

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**Source:** 1979 AC.

**R 408.16307**

**Source:** 1979 AC.

**R 408.16308**

**Source:** 1979 AC.

**R 408.16309**

**Source:** 1979 AC.

**R 408.16311**

**Source:** 1993 AACS.

**R 408.16312**

**Source:** 1979 AC.

**R 408.16313**

**Source:** 1993 AACS.

**R 408.16321**

**Source:** 1993 AACS.

**R 408.16322**

**Source:** 1979 AC.

**R 408.16323**

**Source:** 1979 AC.

**R 408.16324**

**Source:** 1979 AC.

**R 408.16325**

**Source:** 1979 AC.

**R 408.16326**

**Source:** 1979 AC.

**R 408.16327**

**Source:** 1979 AC.

**R 408.16328**

**Source:** 1993 AACS.

**R 408.16331**

**Source:** 1979 AC.

**R 408.16332**

**Source:** 1979 AC.

**R 408.16333**

**Source:** 1983 AACS.

**R 408.16334**

**Source:** 1979 AC.

**R 408.16335**

**Source:** 1979 AC.

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- R 408.16336**  
Source: 1979 AC.
- R 408.16337**  
Source: 1979 AC.
- R 408.16338**  
Source: 1979 AC.
- R 408.16339**  
Source: 1979 AC.
- R 408.16341**  
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- R 408.16342**  
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- R 408.16343**  
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- R 408.16344**  
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- R 408.16345**  
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- R 408.16346**  
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- R 408.16347**  
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- R 408.16348**  
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- R 408.16349**  
Source: 1979 AC.
- R 408.16351**  
Source: 1993 AACS.
- R 408.16352**  
Source: 1979 AC.
- R 408.16353**  
Source: 1979 AC.
- R 408.16354**  
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- R 408.16355**  
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- R 408.16356**  
Source: 1979 AC.
- R 408.16357**  
Source: 1979 AC.

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- R 408.16358**  
Source: 1979 AC.
- R 408.16359**  
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- R 408.16360**  
Source: 1979 AC.
- R 408.16361**  
Source: 1979 AC.
- R 408.16362**  
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- R 408.16363**  
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- R 408.16371**  
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- R 408.16372**  
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- R 408.16374**  
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- R 408.16375**  
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- R 408.16376**  
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- R 408.16377**  
Source: 1979 AC.
- R 408.16378**  
Source: 1981 AACS.
- R 408.16381**  
Source: 1979 AC.
- R 408.16382**  
Source: 1979 AC.
- R 408.16383**  
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- R 408.16384**  
Source: 1979 AC.
- R 408.16385**  
Source: 1979 AC.
- R 408.16386**  
Source: 1979 AC.
- R 408.16387**  
Source: 1979 AC.

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**R 408.16388**  
Source: 1979 AC.

**R 408.16391**  
Source: 1979 AC.

**R 408.16392**  
Source: 1979 AC.

**PART 69. COMPRESSED AIR AND GASES, EQUIPMENT, AND SYSTEMS**

**R 408.16901**  
Source: 1998-2000 AACS.

**R 408.16902**  
Source: 1998-2000 AACS.

**PART 71. LAUNDRY AND DRY CLEANING MACHINERY AND OPERATIONS**

**R 408.17101**  
Source: 1979 AC.

**R 408.17103**  
Source: 1979 AC.

**R 408.17104**  
Source: 1979 AC.

**R 408.17105**  
Source: 1979 AC.

**R 408.17106**  
Source: 1979 AC.

**R 408.17107**  
Source: 1979 AC.

**R 408.17111**  
Source: 1983 AACS.

**R 408.17112**  
Source: 1979 AC.

**R 408.17121**  
Source: 1979 AC.

**R 408.17122**  
Source: 1981 AACS.

**R 408.17123**  
Source: 1997 AACS.

**R 408.17124**  
Source: 1997 AACS.

**R 408.17125**  
Source: 1981 AACS.

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- R 408.17126**  
Source: 1979 AC.
- R 408.17127**  
Source: 1979 AC.
- R 408.17128**  
Source: 1979 AC.
- R 408.17129**  
Source: 1979 AC.
- R 408.17130**  
Source: 1979 AC.
- R 408.17131**  
Source: 1979 AC.
- R 408.17141**  
Source: 1979 AC.
- R 408.17142**  
Source: 1979 AC.
- R 408.17143**  
Source: 1981 AACS.
- R 408.17144**  
Source: 1979 AC.
- R 408.17145**  
Source: 1979 AC.
- R 408.17146**  
Source: 1979 AC.
- R 408.17147**  
Source: 1997 AACS.
- R 408.17148**  
Source: 1979 AC.
- R 408.17149**  
Source: 1979 AC.
- R 408.17150**  
Source: 1979 AC.
- R 408.17151**  
Source: 1979 AC.
- R 408.17152**  
Source: 1979 AC.
- R 408.17153**  
Source: 1979 AC.
- R 408.17154**  
Source: 1979 AC.

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**R 408.17155**  
Source: 1979 AC.

**R 408.17156**  
Source: 1979 AC.

**R 408.17157**  
Source: 1979 AC.

**R 408.17158**  
Source: 1979 AC.

**R 408.17159**  
Source: 1979 AC.

**R 408.17160**  
Source: 1979 AC.

**R 408.17161**  
Source: 1979 AC.

**R 408.17162**  
Source: 1979 AC.

**R 408.17163**  
Source: 1979 AC.

**PART 72. AUTOMOTIVE SERVICE OPERATIONS**

**R 408.17201**  
Source: 1990 AACS.

**R 408.17204**  
Source: 1979 AC.

**R 408.17205**  
Source: 1979 AC.

**R 408.17206**  
Source: 1990 AACS.

**R 408.17207**  
Source: 1979 AC.

**R 408.17211**  
Source: 1979 AC.

**R 408.17212**  
Source: 1979 AC.

**R 408.17213**  
Source: 1979 AC.

**R 408.17221**  
Source: 1979 AC.

**R 408.17222**  
Source: 1979 AC.

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- R 408.17223**  
Source: 1979 AC.
- R 408.17224**  
Source: 1979 AC.
- R 408.17225**  
Source: 1979 AC.
- R 408.17226**  
Source: 1979 AC.
- R 408.17227**  
Source: 1979 AC.
- R 408.17232**  
Source: 1979 AC.
- R 408.17233**  
Source: 1979 AC.
- R 408.17234**  
Source: 1979 AC.
- R 408.17235**  
Source: 1993 AACS.
- R 408.17236**  
Source: 1990 AACS.
- R 408.17237**  
Source: 1990 AACS.
- R 408.17241**  
Source: 1979 AC.
- R 408.17243**  
Source: 1979 AC.
- R 408.17245**  
Source: 1979 AC.
- R 408.17246**  
Source: 1979 AC.
- R 408.17251**  
Source: 1979 AC.
- R 408.17252**  
Source: 1979 AC.
- R 408.17253**  
Source: 1990 AACS.

**PART 73. FIRE BRIGADES**

- R 408.17301**  
Source: 1984 AACS.



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**R 408.17303**  
Source: 1998-2000 AACS.

**R 408.17305**  
Source: 1984 AACS.

**R 408.17307**  
Source: 1984 AACS.

**R 408.17309**  
Source: 1984 AACS.

**R 408.17310**  
Source: 1998-2000 AACS.

**R 408.17312**  
Source: 1984 AACS.

**R 408.17314**  
Source: 1998-2000 AACS.

**R 408.17315**  
Source: 1998-2000 AACS.

**R 408.17316.**  
Source: 1998-2000 AACS.

**R 408.17317**  
Source: 1998-2000 AACS.

**R 408.17318**  
Source: 1998-2000 AACS.

**R 408.17320**  
Source: 1998-2000 AACS.

**R 408.17322**  
Source: 1998-2000 AACS.

**PART 74. FIRE FIGHTING**

**R 408.17401**  
Source: 2001 AACS.

**R 408.17402**  
Source: 1988 AACS.

**R 408.17403**  
Source: 2001 AACS.

**R 408.17404**  
Source: 2001 AACS.

**R 408.17405**  
Source: 2001 AACS.

**R 408.17411**  
Source: 2001 AACS.

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**R 408.17412**  
Source: 1979 AC.

**R 408.17415**  
Source: 2001 AACS.

**CONSTRUCTION AND USE OF EQUIPMENT**

**R 408.17421**  
Source: 2001 AACS.

**R 408.17422**  
Source: 2001 AACS.

**R 408.17423**  
Source: 2001 AACS.

**R 408.17424**  
Source: 2001 AACS.

**R 408.17425**  
Source: 2001 AACS.

**R 408.17426**  
Source: 2001 AACS.

**R 408.17427**  
Source: 1979 AC.

**R 408.17428**  
Source: 1979 AC.

**PERSONAL PROTECTIVE EQUIPMENT**

**R 408.17431**  
Source: 2001 AACS.

**R 408.17432**  
Source: 2001 AACS.

**R 408.17433**  
Source: 2001 AACS.

**R 408.17434**  
Source: 2001 AACS.

**R 408.17435**  
Source: 2001 AACS.

**R 408.17436**  
Source: 2001 AACS.

**R 408.17437**  
Source: 2001 AACS.

**TOOLS**

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**R 408.17440**  
Source: 2001 AACS.

**R 408.17441**  
Source: 1979 AC.

**R 408.17442**  
Source: 2001 AACS.

**R 408.17443**  
Source: 1979 AC.

**OPERATIONS**

**R 408.17451**  
Source: 2001 AACS.

**R 408.17452**  
Source: 2001 AACS.

**INSPECTIONS**

**R 408.17461**  
Source: 1993 AACS.

**R 408.17462**  
Source: 1997 AACS.

**R 408.17463**  
Source: 2001 AACS.

**R 408.17464**  
Source: 2001 AACS.

**PART 75. FLAMMABLE AND COMBUSTIBLE LIQUIDS**

**R 408.17501**  
Source: 1982 AACS.

**PART 76. SPRAY FINISHING AND DIP TANKS**

**R 408.17601**  
Source: 2007 AACS.

**R 408.17602**  
Source: 2007 AACS.

**R 408.17603**  
Source: 2007 AACS.

**R 408.17605**  
Source: 2007 AACS.

**R 408.17607**  
Source: 2007 AACS.

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**R 408.17609**  
Source: 2007 AACCS.

**R 408.17610**  
Source: 2007 AACCS.

**R 408.17612**  
Source: 2007 AACCS.

**R 408.17613**  
Source: 2007 AACCS.

**R 408.17614**  
Source: 2007 AACCS.

**R 408.17615**  
Source: 2007 AACCS.

**R 408.17616**  
Source: 2007 AACCS.

**R 408.17618**  
Source: 2007 AACCS.

**R 408.17620**  
Source: 2007 AACCS.

**R 408.17621**  
Source: 2007 AACCS.

**R 408.17622**  
Source: 2007 AACCS.

**R 408.17623**  
Source: 2007 AACCS.

**R 408.17624**  
Source: 2007 AACCS.

**R 408.17630**  
Source: 2007 AACCS.

**R 408.17631**  
Source: 2007 AACCS.

**R 408.17632**  
Source: 2007 AACCS.

**R 408.17633**  
Source: 2007 AACCS.

**R 408.17636**  
Source: 2007 AACCS.

**R 408.17637**  
Source: 2007 AACCS.

**R 408.17640**

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Source: 2007 AACS.

**R 408.17641**

Source: 2007 AACS.

**R 408.17650**

Source: 2007 AACS.

**R 408.17651**

Source: 2007 AACS.

**R 408.17696**

Source: 2007 AACS.

**R 408.17699**

Source: 2007 AACS.

**PART 77. GRAIN HANDLING FACILITIES**

**R 408.17701**

Source: 1997 AACS.

**R 408.17702**

Source: 1988 AACS.

**R 408.17703**

Source: 1997 AACS.

**R 408.17704**

Source: 1988 AACS.

**R 408.17705**

Source: 1997 AACS.

**R 408.17706**

Source: 1988 AACS.

**R 408.17707**

Source: 1997 AACS.

**R 408.17708**

Source: 1988 AACS.

**R 408.17709**

Source: 1988 AACS.

**R 408.17710**

Source: 1988 AACS.

**R 408.17711**

Source: 1988 AACS.

**R 408.17712**

Source: 1988 AACS.

**R 408.17713**

Source: 1988 AACS.

**R 408.17714**

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**Source:** 1988 AACS.

**R 408.17715**

**Source:** 1988 AACS.

**R 408.17716**

**Source:** 1997 AACS.

**R 408.17717**

**Source:** 1988 AACS.

**R 408.17719**

**Source:** 1997 AACS.

**PART 78. ANHYDROUS AMMONIA**

**R 408.17801**

**Source:** 1998-2000 AACS.

**PART 79. DIVING OPERATIONS**

**R 408.17901**

**Source:** 1979 AC.

**R 408.17903**

**Source:** 1993 AACS.

**R 408.17904**

**Source:** 1993 AACS.

**R 408.17905**

**Source:** 1993 AACS.

**R 408.17906**

**Source:** 1993 AACS.

**R 408.17907**

**Source:** 1993 AACS.

**R 408.17909**

**Source:** 1993 AACS.

**R 408.17911**

**Source:** 1993 AACS.

**R 408.17912**

**Source:** 1993 AACS.

**R 408.17913**

**Source:** 1993 AACS.

**R 408.17914**

**Source:** 1993 AACS.

**R 408.17921**

**Source:** 1993 AACS.

**R 408.17922**

**Source:** 1993 AACS.

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**R 408.17923**  
Source: 1993 AACS.

**R 408.17924**  
Source: 1993 AACS.

**R 408.17925**  
Source: 1993 AACS.

**R 408.17926**  
Source: 1993 AACS.

**R 408.17927**  
Source: 1993 AACS.

**R 408.17931**  
Source: 1993 AACS.

**R 408.17932**  
Source: 1993 AACS.

**R 408.17933**  
Source: 1993 AACS.

**R 408.17934**  
Source: 1993 AACS.

**R 408.17941**  
Source: 1993 AACS.

**R 408.17942**  
Source: 1993 AACS.

**R 408.17945**  
Source: 1993 AACS.

**R 408.17946**  
Source: 1993 AACS.

**R 408.17951**  
Source: 1993 AACS.

**R 408.17952**  
Source: 1993 AACS.

**R 408.17953**  
Source: 1993 AACS.

**R 408.17954**  
Source: 1993 AACS.

**R 408.17955**  
Source: 1993 AACS.

**R 408.17956**  
Source: 1993 AACS.

**R 408.17957**  
Source: 1993 AACS.

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**R 408.17958**  
Source: 1993 AACS.

**R 408.17961**  
Source: 1993 AACS.

**R 408.17962**  
Source: 1993 AACS.

**PART 81. BAKING OPERATIONS**

**R 408.18101**  
Source: 1979 AC.

**R 408.18102**  
Source: 1979 AC.

**R 408.18103**  
Source: 1979 AC.

**R 408.18104**  
Source: 1979 AC.

**R 408.18105**  
Source: 1979 AC.

**R 408.18106**  
Source: 1979 AC.

**R 408.18107**  
Source: 1979 AC.

**R 408.18108**  
Source: 1979 AC.

**R 408.18109**  
Source: 1979 AC.

**R 408.18111**  
Source: 1982 AACS.

**R 408.18112**  
Source: 1979 AC.

**R 408.18113**  
Source: 1979 AC.

**R 408.18114**  
Source: 1982 AACS.

**R 408.18115**  
Source: 1979 AC.

**R 408.18116**  
Source: 1982 AACS.

**R 408.18117**  
Source: 1982 AACS.



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- R 408.18118**  
Source: 1979 AC.
- R 408.18119**  
Source: 1979 AC.
- R 408.18121**  
Source: 1982 AACS.
- R 408.18122**  
Source: 1982 AACS.
- R 408.18123**  
Source: 1982 AACS.
- R 408.18124**  
Source: 1982 AACS.
- R 408.18125**  
Source: 1979 AC.
- R 408.18126**  
Source: 1982 AACS.
- R 408.18127**  
Source: 1982 AACS.
- R 408.18128**  
Source: 1979 AC.
- R 408.18129**  
Source: 1979 AC.
- R 408.18130**  
Source: 1982 AACS.
- R 408.18131**  
Source: 1979 AC.
- R 408.18132**  
Source: 1979 AC.
- R 408.18133**  
Source: 1979 AC.
- R 408.18134**  
Source: 1982 AACS.
- R 408.18135**  
Source: 1979 AC.
- R 408.18136**  
Source: 1979 AC.
- R 408.18138**  
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- R 408.18139**  
Source: 1979 AC.

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- R 408.18141**  
Source: 1979 AC.
- R 408.18142**  
Source: 1982 AACS.
- R 408.18143**  
Source: 1982 AACS.
- R 408.18144**  
Source: 1982 AACS.
- R 408.18145**  
Source: 1982 AACS.
- R 408.18146**  
Source: 1982 AACS.
- R 408.18147**  
Source: 1979 AC.
- R 408.18148**  
Source: 1979 AC.
- R 408.18151**  
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- R 408.18152**  
Source: 1979 AC.
- R 408.18153**  
Source: 1982 AACS.
- R 408.18154**  
Source: 1979 AC.
- R 408.18155**  
Source: 1979 AC.
- R 408.18156**  
Source: 1979 AC.
- R 408.18157**  
Source: 1979 AC.
- R 408.18158**  
Source: 1982 AACS.
- R 408.18159**  
Source: 1979 AC.
- R 408.18160**  
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- R 408.18161**  
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- R 408.18171**  
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**R 408.18172**  
Source: 1979 AC.

**R 408.18173**  
Source: 1979 AC.

**R 408.18174**  
Source: 1979 AC.

**R 408.18175**  
Source: 1979 AC.

**R 408.18176**  
Source: 1979 AC.

**R 408.18177**  
Source: 1979 AC.

**R 408.18181**  
Source: 1982 AACS.

**R 408.18182**  
Source: 1979 AC.

**PART 85. THE CONTROL OF HAZARDOUS ENERGY SOURCES**

**R 408.18501**  
Source: 1993 AACS.

**R 408.18502**  
Source: 1993 AACS.

**R 408.18599**  
Source: 1993 AACS.

**PART 86. ELECTRIC POWER GENERATION, TRANSMISSION, AND DISTRIBUTION**

**R 408.18601**  
Source: 1995 AACS.

**R 408.18602**  
Source: 1997 AACS.

**PART 90. CONFINED SPACE ENTRY**

**R 408.19001**  
Source: 1993 AACS.

**R 408.19002**  
Source: 1998-2000 AACS.

**PART 91. PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS**

**R 408.19101**  
Source: 1998-2000 AACS.

**R 408.19102**

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**Source:** 1998-2000 AACS.

**PART 92. HAZARD COMMUNICATION**

**R 408.19201**

**Source:** 1995 AACS.

**R 408.19202**

**Source:** 1995 AACS.

**R 408.19203**

**Source:** 1995 AACS.

**PART 93. AIR RECEIVERS**

**R 408.19301**

**Source:** 1998-2000 AACS.

**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**

**BUREAU OF SAFETY AND REGULATION**

**GENERAL INDUSTRY SAFETY STANDARDS COMMISSION**

**COMPLIANCE AND APPEALS**

**R 408.19901**

**Source:** 1998-2000 AACS.

**R 408.19902**

**Source:** 1998-2000 AACS.

**R 408.19903**

**Source:** 1998-2000 AACS.

**R 408.19904**

**Source:** 1998-2000 AACS.

**R 408.19905**

**Source:** 1998-2000 AACS.

**R 408.19906**

**Source:** 1998-2000 AACS.

**R 408.19907**

**Source:** 1998-2000 AACS.

**R 408.19908**

**Source:** 1998-2000 AACS.

**R 408.19909**

**Source:** 1998-2000 AACS.

**R 408.19910**

**Source:** 1998-2000 AACS.

**DEPARTMENT ORGANIZATION AND GENERAL FUNCTIONS**

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**PART 1. DIRECTOR'S OFFICE**

**R 408.20001**  
Source: 1997 AACS.

**R 408.20002**  
Source: 1997 AACS.

**R 408.20003**  
Source: 1997 AACS.

**R 408.20004**  
Source: 1997 AACS.

**R 408.20005**  
Source: 1997 AACS.

**R 408.20006**  
Source: 1997 AACS.

**PART 2. BUREAU OF ADMINISTRATIVE SERVICES**

**R 408.20011**  
Source: 1997 AACS.

**R 408.20012**  
Source: 1997 AACS.

**R 408.20013**  
Source: 1997 AACS.

**R 408.20014**  
Source: 1997 AACS.

**R 408.20015**  
Source: 1997 AACS.

**PART 3. BUREAU OF SAFETY AND REGULATION**

**R 408.20021—R 408.20031**  
Source: 1997 AACS.

**PART 4. EMPLOYMENT RELATIONS COMMISSION**

**R 408.20041**  
Source: 1997 AACS.

**R 408.20042**  
Source: 1997 AACS.

**R 408.20043**  
Source: 1997 AACS.

**PART 5. WORKMEN'S COMPENSATION AGENCIES**

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**R 408.20051**  
Source: 1997 AACS.

**R 408.20052**  
Source: 1997 AACS.

**R 408.20053**  
Source: 1997 AACS.

**R 408.20054**  
Source: 1997 AACS.

**R 408.20055**  
Source: 1997 AACS.

**R 408.20056**  
Source: 1997 AACS.

**R 408.20057**  
Source: 1997 AACS.

**PART 6. EMPLOYMENT SECURITY AGENCIES**

**R 408.20061**  
Source: 1997 AACS.

**R 408.20062**  
Source: 1997 AACS.

**R 408.20063**  
Source: 1997 AACS.

**R 408.20064**  
Source: 1997 AACS.

**R 408.20065**  
Source: 1997 AACS.

**PART 7. OTHER BOARDS AND COMMISSIONS**

**R 408.20071**  
Source: 1997 AACS.

**R 408.20072**  
Source: 1997 AACS.

**R 408.20073**  
Source: 1997 AACS.

**R 408.20074**  
Source: 1997 AACS.

**R 408.20075**  
Source: 1997 AACS.

**R 408.20076**  
Source: 1997 AACS.

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**R 408.20077**  
Source: 1997 AACS.

**R 408.20078**  
Source: 1997 AACS.

**R 408.20079**  
Source: 1997 AACS.

**R 408.20080**  
Source: 1997 AACS.

**R 408.20081**  
Source: 1997 AACS.

**R 408.20082**  
Source: 1997 AACS.

**R 408.20083**  
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**R 408.20084**  
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**R 408.20085**  
Source: 1997 AACS.

**R 408.20086**  
Source: 1997 AACS.

**OCCUPATIONAL SAFETY AND HEALTH**  
**PART 4. PROCEDURES**

**R 408.21401**  
Source: 1979 AC.

**R 408.21403**  
Source: 1979 AC.

**R 408.21405**  
Source: 1979 AC.

**R 408.21411**  
Source: 1979 AC.

**R 408.21412**  
Source: 1979 AC.

**R 408.21413**  
Source: 1979 AC.

**R 408.21414**  
Source: 1979 AC.

**R 408.21415**  
Source: 1979 AC.

**R 408.21416**  
Source: 1979 AC.

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**R 408.21417**  
Source: 1979 AC.

**R 408.21418**  
Source: 1979 AC.

**R 408.21421**  
Source: 1979 AC.

**R 408.21422**  
Source: 1979 AC.

**R 408.21423**  
Source: 1979 AC.

**R 408.21424**  
Source: 1979 AC.

**R 408.21425**  
Source: 1979 AC.

**R 408.21426**  
Source: 1979 AC.

**R 408.21427**  
Source: 1979 AC.

**R 408.21428**  
Source: 1979 AC.

**R 408.21429**  
Source: 1979 AC.

**R 408.21431**  
Source: 1979 AC.

**R 408.21432**  
Source: 1979 AC.

**R 408.21433**  
Source: 1979 AC.

**R 408.21434**  
Source: 1979 AC.

**R 408.21441**  
Source: 1979 AC.

**R 408.21442**  
Source: 1979 AC.

**R 408.21443**  
Source: 1979 AC.

**R 408.21444**  
Source: 1979 AC.

**R 408.21445**  
Source: 1979 AC.



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**R 408.21446**  
Source: 1979 AC.

**R 408.21447**  
Source: 1979 AC.

**OCCUPATIONAL SAFETY AND HEALTH**

**PART 11. RECORDING AND REPORTING OF OCCUPATIONAL  
INJURIES AND ILLNESSES**

**R 408.22101**  
Source: 2001 AACS.

**R 408.22102**  
Source: 2001 AACS.

**R 408.22103**  
Source: 2002 AACS.

**R 408.22104**  
Source: 1998-2000 AACS.

**R 408.22105**  
Source: 2001 AACS.

**R 408.22106**  
Source: 2001 AACS.

**R 408.22107**  
Source: 2002 AACS.

**R 408.22108**  
Source: 2001 AACS.

**R 408.22109**  
Source: 2001 AACS.

**R 408.22110**  
Source: 2001 AACS.

**R 408.22111**  
Source: 2001 AACS.

**R 408.22112**  
Source: 2002 AACS.

**R 408.22113**  
Source: 2001 AACS.

**R 408.22114**  
Source: 2001 AACS.

**R 408.22115**  
Source: 2002 AACS.

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**R 408.22116**  
Source: 2001 AACs.

**R 408.22117**  
Source: 2001 AACs.

**R 408.22118**  
Source: 1979 AC.

**R 408.22119**  
Source: 2001 AACs.

**R 408.22120**  
Source: 2001 AACs.

**R 408.22121**  
Source: 2001 AACs.

**R 408.22122**  
Source: 2001 AACs.

**R 408.22129**  
Source: 2001 AACs.

**R 408.22130**  
Source: 2001 AACs.

**R 408.22131**  
Source: 2001 AACs.

**R 408.22132**  
Source: 2001 AACs.

**R 408.22133**  
Source: 2001 AACs.

**R 408.22134**  
Source: 2001 AACs.

**R 408.22135**  
Source: 2002 AACs.

**R 408.22136**  
Source: 2001 AACs.

**R 408.22137**  
Source: 1979 AC.

**R 408.22138**  
Source: 2001 AACs.

**R 408.22139**  
Source: 2001 AACs.

**R 408.22140**  
Source: 2001 AACs.

**R 408.22141**

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Source: 2002 AACS.

**R 408.22142**

Source: 2001 AACS.

**R 408.22143**

Source: 2001 AACS.

**R 408.22144**

Source: 2001 AACS.

**R 408.22151**

Source: 2001 AACS.

**R 408.22152**

Source: 2001 AACS.

**R 408.22153**

Source: 2001 AACS.

**R 408.22154**

Source: 2001 AACS.

**R 408.22155**

Source: 2001 AACS.

**R 408.22156**

Source: 2001 AACS.

**R 408.22157**

Source: 2001 AACS.

**R 408.22158**

Source: 2001 AACS.

**R 408.22161**

Source: 2001 AACS.

**R 408.22162**

Source: 2001 AACS.

**DEPARTMENT OF CONSUMER & INDUSTRY SERVICES**

**MIOSHA SAFETY AND HEALTH STANDARDS**

**PART 12. VARIANCES**

**R 408.22201**

Source: 1979 AC.

**R 408.22203**

Source: 1998-2000 AACS.

**R 408.22204**

Source: 1979 AC.

**R 408.22212**

Source: 1979 AC.

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**R 408.22213**  
Source: 1998-2000 AACS.

**R 408.22214**  
Source: 1979 AC.

**R 408.22215**  
Source: 1979 AC.

**R 408.22221**  
Source: 1998-2000 AACS.

**R 408.22222**  
Source: 1979 AC.

**R 408.22223**  
Source: 1979 AC.

**R 408.22224**  
Source: 1998-2000 AACS.

**R 408.22225**  
Source: 1979 AC.

**R 408.22226**  
Source: 1979 AC.

**R 408.22227**  
Source: 1998-2000 AACS.

**R 408.22231**  
Source: 1979 AC.

**R 408.22232**  
Source: 1979 AC.

**R 408.22233**  
Source: 1979 AC.

**R 408.22234**  
Source: 1998-2000 AACS.

**R 408.22235**  
Source: 1979 AC.

**R 408.22236**  
Source: 1979 AC.

**R 408.22237**  
Source: 1979 AC.

**R 408.22238**  
Source: 1979 AC.

**R 408.22239**  
Source: 1979 AC.

**R 408.22240**

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**Source:** 1998-2000 AACs.

**R 408.22251**

**Source:** 1979 AC.

**PART 13. INSPECTIONS AND INVESTIGATIONS, CITATIONS, AND PROPOSED PENALTIES**

**R 408.22301**

**Source:** 1979 AC.

**R 408.22303**

**Source:** 1979 AC.

**R 408.22305**

**Source:** 1979 AC.

**R 408.22307**

**Source:** 1979 AC.

**R 408.22309**

**Source:** 1979 AC.

**R 408.22311**

**Source:** 1979 AC.

**R 408.22321**

**Source:** 1979 AC.

**R 408.22322**

**Source:** 1979 AC.

**R 408.22323**

**Source:** 1979 AC.

**R 408.22324**

**Source:** 1979 AC.

**R 408.22325**

**Source:** 1979 AC.

**R 408.22326**

**Source:** 1979 AC.

**R 408.22331**

**Source:** 1979 AC.

**R 408.22333**

**Source:** 1979 AC.

**R 408.22338**

**Source:** 1979 AC.

**R 408.223239**

**Source:** 1979 AC.

**R 408.22342**

**Source:** 1979 AC.

**R 408.22344**

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Source: 1979 AC.

**R 408.22346**

Source: 1979 AC.

**R 408.22348**

Source: 1979 AC.

**R 408.22349**

Source: 1979 AC.

**R 408.22351**

Source: 1979 AC.

**R 408.22352**

Source: 1979 AC.

**R 408.22353**

Source: 1979 AC.

**R 408.22354**

Source: 1979 AC.

**R 408.22355**

Source: 1979 AC.

**R 408.22356**

Source: 1979 AC.

**R 408.22358**

Source: 1979 AC.

**R 408.22361**

Source: 1979 AC.

**HEARINGS OFFICE**  
**POLITICAL ACTIVITY HEARINGS**

**R 408.22901**

Source: 1981 AACS.

**R 408.22902**

Source: 1981 AACS.

**WAGE AND FRINGE BENEFIT HEARINGS**

**R 408.22951**

Source: 1982 AACS.

**R 408.22952**

Source: 1982 AACS.

**R 408.22953**

Source: 1982 AACS.

**R 408.22954**

Source: 1982 AACS.

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**R 408.22955**  
Source: 1982 AACS.

**R 408.22956**  
Source: 1982 AACS.

**R 408.22957**  
Source: 1982 AACS.

**R 408.22958**  
Source: 1982 AACS.

**R 408.22959**  
Source: 1982 AACS.

**R 408.22960**  
Source: 1982 AACS.

**R 408.22961**  
Source: 1982 AACS.

**R 408.22962**  
Source: 1982 AACS.

**R 408.22963**  
Source: 1982 AACS.

**R 408.22964**  
Source: 1982 AACS.

**R 408.22965**  
Source: 1982 AACS.

**R 408.22966**  
Source: 1982 AACS.

**R 408.22967**  
Source: 1982 AACS.

**R 408.22968**  
Source: 1982 AACS.

**R 408.22969**  
Source: 1982 AACS.

**R 408.22970**  
Source: 1982 AACS.

**R 408.22971**  
Source: 1982 AACS.

**BUILDING OFFICIALS, PLAN REVIEWERS, AND INSPECTORS**

**R 408.30001**  
Source: 1991 AACS.

**R 408.30004**  
Source: 1991 AACS.

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- R 408.30007**  
Source: 1991 AACS.
- R 408.30010**  
Source: 1991 AACS.
- R 408.30013**  
Source: 1991 AACS.
- R 408.30016**  
Source: 1991 AACS.
- R 408.30019**  
Source: 1991 AACS.
- R 408.30022**  
Source: 1991 AACS.
- R 408.30025**  
Source: 1991 AACS.
- R 408.30028**  
Source: 1991 AACS.
- R 408.30031**  
Source: 1991 AACS.
- R 408.30034**  
Source: 1991 AACS.
- R 408.30037**  
Source: 1998-2000 AACS.
- R 408.30040**  
Source: 1991 AACS.
- R 408.30043**  
Source: 1998-2000 AACS.
- R 408.30046**  
Source: 1991 AACS.
- R 408.30049**  
Source: 1991 AACS.
- R 408.30052**  
Source: 1991 AACS.
- R 408.30055**  
Source: 1991 AACS.

**CONSTRUCTION CODE**

**PART 1. ADMINISTRATION AND ENFORCEMENT**

- R 408.30101**  
Source: 1979 AC.



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**R 408.30111**  
Source: 1981 AACS.

**R 408.30113**  
Source: 1979 AC.

**R 408.30114**  
Source: 1981 AACS.

**R 408.30115**  
Source: 1979 AC.

**R 408.30121**  
Source: 1979 AC.

**PART 2. PERMITS, INSPECTIONS, AND FEES**

**R 408.30201**  
Source: 1979 AC.

**R 408.30221**  
Source: 1979 AC.

**PART 3. APPEAL BOARDS AND HEARINGS**

**R 408.30301**  
Source: 1979 AC.

**R 408.30311**  
Source: 1979 AC.

**R 408.30315**  
Source: 1979 AC.

**R 408.30316**  
Source: 1987 AACS.

**PART 4. BUILDING CODE**

**R 408.30401 Applicable code.**

Rule 401. Except as provided in R 408.30401a, the provisions of the international building code, 2006 edition, including appendices F, G, and H, except for sections 104.8, 108.2 to 108.6, 114.3, 415.6.2.2 to 415.6.2.10, 415.6.3.1 to 415.6.3.5.2, table 1608.2, 2902 to 2902.5, Table 2902.1, 3006.5, the definition of "recreational vehicle" in Appendix G, and, IECC-2006, ICC EC-2006, IMC-2006, IPC-2006, IPSDC-2006 listed in chapter 35, and the provisions of the international residential code, 2006 edition, including appendices A, B, C, D, E, F, G, J, K, M, N, O, and Q except for sections R104.8, R108.2, R108.3, R108.4, R108.5, N1101 to N1103.6 tables N1101.2, N1102.1, R404.1(1), R404.1(2) and R404.1(3) sections P2503.8, P2709.2.3, AJ102.4, Figure N3 and IBC-2006, ICC EC-2006, IECC-2006, IMC-2006, IPC-2006, NFPA 70-05 listed in chapter 43 govern the construction, alteration, relocation, demolition, use, and occupancy of buildings and structures, and, with exceptions noted, the international building code and the international residential code are adopted by reference in these rules. All references to the International Building Code, International Residential Code, International Energy Conservation Code, International Electrical Code, International Existing Building Code, International Mechanical Code, and International Plumbing Code mean the Michigan Building Code, Michigan Residential Code, Michigan Uniform Energy Code, Michigan Electrical Code, Michigan Rehabilitation Code for Existing Buildings, Michigan Mechanical Code, and Michigan Plumbing Code respectively. The codes are available for inspection at the Okemos office of the Michigan Department of Labor & Economic Growth, Bureau of Construction Codes. The codes may be purchased from the International Code Council, 500 New Jersey Avenue, N.W., 6<sup>th</sup> Floor, Washington, D.C. 20001, or from the Michigan Department of Labor & Economic Growth, Bureau of Construction Codes, 2501 Woodlake Circle, Okemos, Michigan

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48864, at a cost as of the time of adoption of these amendatory rules of \$86.00 and \$66.00 respectively.

History: 1954 ACS 79, Eff. Nov. 6, 1974; 1954 ACS 89, Eff. Nov. 13, 1976; 1954 ACS 101, Eff. Nov. 21, 1979; 1979 AC; 1979 ACS 8, Eff. Dec. 16, 1981; 1985 MR 7, Eff. July 30, 1985; 1988 MR 7, Eff. Aug. 10, 1988; 1992 MR 10, Eff. Nov. 7, 1992; 1995 MR 5, Eff. May 18, 1995; 1998 MR 11, Eff. Nov. 30, 1998; 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30401a Adult foster care facilities and child care organizations.**

Rule 401a. (1) Promulgation authority for fire safety standards for facilities and camps licensed or registered under the adult foster care facility licensing act, 1979 PA 218, being MCL 400.701 et seq., and the child care organizations act, 1973 PA 116, being MCL 722.101 et seq., is vested in the department of human services and the bureau of fire services.

(2) Until amended or rescinded by the promulgating authority, the 2003 Michigan building code provisions relative to fire safety standards for facilities and camps licensed or registered under the adult foster care facility licensing act, 1979 PA 218, being MCL 400.701 et seq., and the child care organizations act, 1973 PA 116, being MCL 722.101 et seq., remain in effect.

History: 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30402**

**Source:** 2001 AACS.

**408.30403**

**Source:** 1998-2000 AACS.

**R 408.30403a**

**Source:** 1997 AACS.

**R 408.30404 Approved materials and equipment.**

Rule 404. Section 104.9 of the code is amended to read as follows:

104.9. Approved materials and equipment. Materials, equipment, and devices shall be constructed or installed in accordance with approvals granted under the act or by the building official. The building official shall review reports prepared by recognized evaluation services and determine if the intent of the code is met.

History: 1979 ACS 8, Eff. Dec. 16, 1981; 1995 MR 5, Eff. May 18, 1995; 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30405 Professional architectural and engineering services.**

Rule 405. Section 106.1 of the code is amended to read as follows:

106.1. Submittal documents. Construction documents, special inspection and structural programs and other data shall be submitted in 1 or more sets with each application for a permit. The construction documents shall be prepared by, or under the direct supervision of, a registered design professional when required by 1980 PA 299, MCL 339.101 to 339.2721. Where special conditions exist, the building official is authorized to require additional construction documents to be prepared by a registered design professional.

History: 1979 ACS 8, Eff. Dec. 16, 1981; 1985 MR 7, Eff. July 30, 1985; 1995 MR 5, Eff. May 18, 1995; 1998 MR 11, Eff. Nov. 30, 1998; 2001 MR 8, Eff. Jul. 31, 2001; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30406**

**Source:** 2004 AACS.

**R 408.30407**

**Source:** 1998-2000 AACS.

**R 408.30408 Fees.**

Rule 408. Section 108.1 of the code is amended to read as follows:

108.1. Payment of fees. The fees prescribed by the act shall be paid to the enforcing agency of the jurisdiction before a permit to begin work for new construction, alteration, removal, demolition, or other building operation may be issued. In addition, an amendment to a permit necessitating an additional fee shall not be approved until the additional fee has been paid.

History: 1979 ACS 8, Eff. Dec. 16, 1981; 1995 MR 5, Eff. May 18, 1995; 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

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**R 408.30409**

**Source:** 2004 AACS.

**R 408.30410 Violations.**

Rule 410. Section 113.4 of the code is amended to read as follows:

113.4. Violation penalties. It is unlawful for any person, firm, or corporation to violate a provision of the code or fail to conform with any of the requirements thereof, or erect, construct, alter, extend, repair, move, remove, demolish, or occupy any building, structure, or equipment regulated by the code, or cause work to be performed or done, in conflict with or in violation of the approved construction documents or directive of the enforcing agency, or a permit or certificate issued under the code. A violator shall be assessed a fine in accordance with the act.

History: 1979 ACS 8, Eff. Dec. 16, 1981; 1995 MR 5, Eff. May 18, 1995; 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30411 Stop-work order.**

Rule 411. Section 114.2 of the code is amended to read as follows:

114.2. Issuance. Upon notice from the enforcing agency, work on any building or structure that is being done contrary to the code or in a dangerous or unsafe manner shall immediately cease. Notice shall be in accordance with the act. A person who is served with a stop work order, except for work that the person is directed to perform to remove a violation or unsafe condition is subject to the penalty provisions prescribed in the act.

History: 1954 ACS 79, Eff. Nov. 6, 1974; 1979 AC; 1979 ACS 8, Eff. Dec. 16, 1981; 1995 MR 5, Eff. May 18, 1995; 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30412 Certificate of use and occupancy.**

Rule 412. Section 110.1 of the code is amended to read as follows:

110.1. Use and occupancy. A building or structure shall not be used or occupied, and a change in the existing occupancy classification of a building or structure or portion thereof shall not be made until a certificate of occupancy has been issued in accordance with the act.

History: 1954 ACS 79, Eff. Nov. 6, 1974; 1979 AC; 1979 ACS 8, Eff. Dec. 16, 1981; 1995 MR 5, Eff. May 18, 1995; 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. Feb. 29, 2004; ; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30413**

**Source:** 1997 AACS.

**R 408.30414 Board of appeals.**

Rule 414. Sections 112.1 and 112.3 of the code are amended to read as follows:

112.1 Means of appeal. An interested person may appeal a decision of the enforcing agency to the board of appeals in accordance with the act. An application for appeal shall be based on a claim that the true intent of the code or the rules governing construction have been incorrectly interpreted, the provisions of the code do not apply, or an equal or better form of construction is proposed. The decision of a local board of appeals may be appealed to the construction code commission in accordance with the act and time frames.

Exception: Requests for barrier free design exception shall be in accordance with 1966 PA 1, MCL 125.1352 to 125.1356.

112.3 Qualifications. The board of appeals shall consist of members who are qualified in accordance with the act.

History: 1954 ACS 79, Eff. Nov. 6, 1974; 1954 ACS 89, Eff. Nov. 13, 1976; 1954 ACS 101, Eff. Nov. 21, 1979; 1979 AC; 1979 ACS 8, Eff. Dec. 16, 1981; 1985 MR 7, Eff. July 30, 1985; 1988 MR 7, Eff. Aug. 10, 1988; rescinded 1992 MR 10, Eff. Nov. 7, 1992; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30415**

**Source:** 1997 AACS.

**R 408.30415a Definitions.**

Rule 415a. The definition of act is added and the definitions of building, registered design professional, and structure in section 202 of the code are amended to read as follows:

202. Definitions.

“Act” means 1972 PA 230, MCL 125.1501 to 125.1531 and known as the Stille-DeRossett-Hale single state construction code act.

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"Building" means a combination of materials, whether portable or fixed, forming a structure affording a facility or shelter for use or occupancy by persons, animals, or property. The term does not include a building incidental to the use for agricultural purposes of the land on which the building is located if it is not used in the business of retail trade. The term shall be construed as though followed by the words "or part or parts of the building and all equipment in the building" unless the context clearly requires a different meaning.

"Building official" means the person who is appointed and employed by a governmental subdivision charged with the administration and enforcement of the state code or codes and who is registered in accordance with the requirements of 1986 PA 54, MCL 338.2301 to 338.2313.

"Registered design professional" means an individual who is licensed under article 20, 1980 PA 299, MCL 339.2001 to 339.2721.

"Structure" means that which is built or constructed, an edifice or building of any kind, or a piece of work artificially built up or composed of parts joined together in some definite manner. Structure does not include a structure incidental to the use for agricultural purposes of the land on which the structure is located and does not include works of heavy civil construction including without limitation any of the following:

- (a) A highway.
- (b) A bridge.
- (c) A dam.
- (d) A reservoir.
- (e) A lock.
- (f) A mine.
- (g) A harbor.
- (h) A dockside port facility.
- (i) An airport landing facility.
- (j) A facility for the generation, or transmission, or distribution of electricity.

Structure shall be construed as though followed by the words "or part or parts of the structure and all equipment in the structure," unless the context clearly indicates otherwise.

History: 1988 MR 12, Eff. Jan. 4, 1989; 1995 MR 5, Eff. May 18, 1995; 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30416**

**Source:** 2004 AACs.

**R 408.30417 Rescinded.**

History: 1954 ACS 79, Eff. Nov. 6, 1974; 1954 ACS 89, Eff. Nov. 13, 1976; 1954 ACS 101, Eff. Nov. 21, 1979; 1979 AC; rescinded 1979 ACS 8, Eff. Dec. 16, 1981; 2004 MR 4, Eff. feb. 29, 2004; rescinded 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30418 Maximum floor area allowances per occupant.**

Rule 418. Table 1004.1.1 of the code is amended to read as follows:

Table 1004.1.1

MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

FUNCTION OF SPACE	FLOOR AREA IN SQ. FT. PER OCCUPANT
Agricultural building	300 gross
Aircraft hangars	500 gross
Airport terminal	
Baggage claim	20 gross
Baggage handling	300 gross
Concourse	100 gross
Waiting areas	15 gross
Assembly	
Gaming floors (keno, slots, etc.)	11 gross
Assembly with fixed seats	See section 1004.7
Assembly without fixed seats	
Concentrated (chairs only-not fixed)	7 net
Standing space	5 net

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Unconcentrated (tables and chairs)	15 net
Bowling centers, allow 5 persons for each lane including 15 feet of runway, and for additional areas	7 net
Business areas	100 gross
Courtrooms-other than fixed seating areas	40 net
Day care	35 net
Dormitories	50 gross
Educational	
Classroom area	20 net
Shops and other vocational room areas	50 net
Locker rooms	15 gross
Exercise rooms	50 gross
H-5 Fabrication and manufacturing areas	200 gross
Industrial areas	100 gross
Institutional areas	
Inpatient treatment areas	240 gross
Outpatient areas	100 gross
Sleeping areas	120 gross
Kitchens, commercial	200 gross
Library	
Reading rooms	50 net
Stack area	100 gross
Locker rooms	50 gross
Mercantile	
Areas on other floors	60 gross
Basement and grade floor areas	30 gross
Storage, stock, shipping areas	300 gross
Parking garages	200 gross
Residential	200 gross
Skating rinks, swimming pools	
Rink and pool	50 gross
Decks	15 gross
Stages and platforms	15 net
Accessory storage areas, mechanical equipment room	300 gross
Warehouses	500 gross

For SI: 1 square foot = 0.0929 m<sup>2</sup>

History: 1954 ACS 79, Eff. Nov. 6, 1974; 1954 ACS 89, Eff. Nov. 13, 1976; 1954 ACS 101, Eff. Nov. 21, 1979; 1979 AC; rescinded 1979 ACS 8, Eff. Dec. 16, 1981; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30419**

**Source:** 2004 AACS.

**R 408.30420**

**Source:** 1997 AACS.

**R 408.30421 Emergency escape and rescue.**

Rule 421. Section 1026.1 of the code is amended to read as follows:

1026.1 General. In addition to the means of egress required by this chapter, provisions shall be made for emergency escape and rescue in group R as applicable in section 101.2, classrooms greater than 250 feet<sup>2</sup> (23.2 m<sup>2</sup>) in group E, and group I-1 occupancies. Basements and sleeping rooms below the fourth story above grade plane shall have at least 1 exterior emergency escape and rescue opening in accordance with this section. Where basements contain 1 or more sleeping rooms, emergency egress and rescue openings shall be required in each sleeping room, but shall not be required in adjoining areas of the basement. Such opening shall open directly into a public street, public alley, yard, or court.

Exceptions:

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1. In other than group R-3 occupancies as applicable in section 101.2, buildings equipped throughout with an approved automatic sprinkler system in accordance with section 903.3.1.1 or 903.3.1.2.
  2. In other than group R-3 occupancies as applicable in section 101.2, sleeping rooms provided with a door to a fire-resistance-rated corridor having access to 2 remote exits in opposite directions.
  3. The emergency escape and rescue opening is permitted to open onto a balcony within an atrium in accordance with the requirements of section 404, provided the balcony provides access to an exit and the dwelling unit or sleeping unit has a means of egress that is not open to the atrium.
  4. Basements with a ceiling height of less than 80 inches (2032 mm) shall not be required to have emergency escape and rescue windows.
  5. High-rise buildings in accordance with section 403.
  6. Emergency escape and rescue openings are not required from basements or sleeping rooms which have an exit door or exit access door that opens directly into a public street, public alley, yard, egress court, or to an exterior exit balcony that opens to a public street, public alley, yard, or egress court.
  7. Basements without habitable spaces and having not more than 200 square feet (18.6 square meters) in floor area shall not be required to have emergency escape windows.
- History: 1954 ACS 79, Eff. Nov. 6, 1974; 1954 ACS 89, Eff. Nov. 13, 1976; 1954 ACS 101, Eff. Nov. 21, 1979; 1979 AC; rescinded 1979 ACS 8, Eff. Dec. 16, 1981; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30422**

**Source:** 1997 AACS.

**R 408.30423**

**Source:** 1997 AACS.

**R 408.30427 Barrier free design for buildings, structures, and improved areas.**

Rule 427. Sections 1101.2 and 1109.7 of the code are amended and section 1103.2.16 is added to the code to read as follows:

1101.2 Design. Buildings and facilities shall be designed and constructed to be accessible in accordance with 1966 PA 1, MCL 125.1351 to 125.1356, this code and ICC/ANSI A 117.1, except sections 611 and 707.

1109.7 Lifts. Platform (wheelchair) lifts are permitted to be a part of a required accessible route in new construction where indicated in items 1 to 10. Platform (wheelchair) lifts shall be installed in accordance with the Michigan elevator code, R 408.7001 to R 408.8695.

1. An accessible route to a performing area and speakers' platforms in occupancies in group A.
2. An accessible route to wheelchair spaces required to comply with the wheelchair space dispersion requirements of sections 1108.2.2 to 1108.2.4.
3. An accessible route to spaces that are not open to the general public with an occupant load of not more than 5.
4. An accessible route within a dwelling or sleeping unit.
5. An accessible route to wheelchair seating spaces located in outdoor dining terraces in A-5 occupancies where the means of egress from the dining terraces to a public way are open to the outdoors.
6. An accessible route to jury boxes and witness stands; raised courtroom stations including judges' benches, clerks' stations, bailiffs' stations, deputy clerks' stations and court reporters' stations; and to depressed areas such as the well of the court.
7. An accessible route to load and unload areas serving amusement rides.
8. An accessible route to play components or self contained play structures.
9. An accessible route to team or player seating areas serving areas of sport activity.
10. An accessible route where existing exterior site constraints make use of a ramp or elevator infeasible.

1103.2.16. Military, fire service, and police facilities. Housing, bathing, toilet, training, and storage areas intended for use and occupancy exclusively by military, fire service, police, or security personnel required to be physically agile are not required to be accessible.

History: 1954 ACS 79, Eff. Nov. 6, 1974; 1954 ACS 89, Eff. Nov. 13, 1976; 1954 ACS 101, Eff. Nov. 21, 1979; 1979 AC; 1979 ACS 8, Eff. Dec. 16, 1981; 1985 MR 7, Eff. July 30, 1985; 1987 MR 3, Eff. Apr. 2, 1987; 1988 MR 7, Eff. Aug. 10, 1988; 1992 MR 10, Eff. Nov. 7, 1992; 1995 MR 5, Eff. May 18, 1995; 1998 MR 11, Eff. Nov. 30, 1998; 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4 Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30427a**

**Source:** 2001 AACS.

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**R 408.30427b**  
Source: 2001 AACS.

**R 408.30427c**  
Source: 2001 AACS.

**R 408.30427d**  
Source: 2001 AACS.

**R 408.30427e**  
Source: 2001 AACS.

**R 408.30428**  
Source: 1997 AACS.

**R 408.30429 High-rise buildings.**

Rule 429. Sections 403.1, 403.13, 907.2.12, and 907.8.2 of the code are amended to read as follows:

403.1. Applicability. The provisions of this section shall apply to buildings having the occupied floors located more than 55 feet (16764 mm) above the lowest level of fire department vehicle access.

Exception: The provisions of this section shall not apply to the following buildings and structures:

1. Airport traffic control towers in accordance with section 412 of the code.
2. Open parking garages in accordance with section 406.3 of the code.
3. Buildings with an occupancy in group A-5 in accordance with section 303.1 of the code.
4. Low-hazard special industrial occupancies in accordance with section 503.1.1 of the code.
5. Buildings with an occupancy in group H-1, H-2, or H-3 in accordance with section 415 of the code.
6. Existing buildings having occupied floor levels not more than 75 feet (22860 mm) above the lowest level of fire department vehicle access where the local unit of government complies with the following:
  - 6.1. The local unit of government has a municipal fire department with an ISO rating of 3 or lower, employing a full-time career fire fighting staff.
  - 6.2. The governing body of the local unit of government has passed a resolution affirming the use of this exception and filed that resolution with the department of labor & economic growth, bureau of construction codes.

403.13. Smokeproof exit enclosures. Every required stairway serving floors more than 55 feet (16764 mm) above the lowest level of fire department vehicle access shall comply with sections 909.20 and 1020.1.7 of the code.

907.2.12. High-rise buildings. Buildings having floors used for human occupancy located more than 55 feet (16764 mm) above the lowest level of fire department vehicle access shall be provided with an automatic fire alarm system and an emergency voice/alarm communication system in accordance with section 907.2.12.2 of the code.

Exceptions:

1. Airport traffic control towers in accordance with sections 412 and 907.2.22 of the code.
  2. Open parking garages in accordance with section 406.3 of the code.
  3. Buildings with an occupancy in group A-5.
  4. Low-hazard special occupancies in accordance with section 503.1.1 of the code.
  5. Buildings with an occupancy in group H-1, H-2, or H-3 in accordance with section 415 of the code.
- 907.8.2. High-rise buildings. In buildings used for human occupancy that have floors located more than 55 feet (16764 mm) above the lowest level of fire department vehicle access, a separate zone by floor shall be provided for all of the following types of alarm-initiating devices where provided:
1. Smoke detectors.
  2. Sprinkler water-flow devices.
  3. Manual fire alarm boxes.
  4. Other approved types of automatic fire detection devices or suppression systems.

History: 1954 ACS 101, Eff. Nov. 21, 1979; 1979 AC; 1979 ACS 8, Eff. Dec. 16, 1981; 1985 MR 7, Eff. July 30, 1985; 1988 MR 7, Eff. Aug. 10, 1988; 1992 MR 10, Eff. Nov. 7, 1992; 1995 MR 5, Eff. May 18, 1995; 2001 MR 8, Eff. Jul. 31, 2001; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30429a**  
Source: 2004 AACS.

**R 408.30430 Liquefied petroleum gas distribution facilities.**

Rule 430. Section 415.6.3 of the code is amended to read as follows:

415.6.3. Liquefied petroleum gas distribution facilities. The design and construction of propane, butane, propylene, butylene, and other liquefied petroleum gas distribution facilities shall conform to the applicable provisions of the Michigan liquefied petroleum gas code, R 29.3801 to R 29.4035. The storage and handling of liquefied petroleum gas systems shall conform to the international fire code listed in chapter 35. The design and installation of piping, equipment, and systems that utilize liquefied petroleum gas shall be in accordance with the international fuel gas code listed in chapter 35. Liquefied petroleum gas distribution facilities shall be ventilated in accordance with the Michigan mechanical code, R 408.30901 to R 408.30998, and the requirements of the Michigan rules for the storage and handling of flammable and combustible liquids, R 29.4101 to R 29.5516.

History: 1954 ACS 101, Eff. Nov. 21, 1979; 1979 AC; 1979 ACS 8, Eff. Dec. 16, 1981; 1985 MR 7, Eff. July 30, 1985; 1988 MR 7, Eff. Aug. 10, 1988; 1992 MR 10, Eff. Nov. 7, 1992; 1995 MR 5, Eff. May 18, 1995; 2001 MR 8, Eff. Jul. 31, 2001; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30431**

**Source:** 1997 AACS.

**R 408.30432 Flammable and combustible liquids.**

Rule 432. Section 415.6.2 of the code is amended to read as follows:

415.6.2. Flammable and combustible liquids. The storage, handling, processing, and transporting of flammable and combustible liquids shall be in accordance with the Michigan mechanical code, R 408.30901 to R 408.30998, and the international fire code listed in chapter 35, and the requirements of the Michigan rules for the storage and handling of flammable and combustible liquids, R 29.4101 to R 29.5516.

History: 1979 ACS 101, Eff. Nov. 21, 1979; 1979 AC; 1979 ACS 8, Eff. Dec. 16, 1981; 1988 MR 7, Eff. Aug. 10, 1988; 1992 MR 10, Eff. Nov. 7, 1992; 1995 MR 5, Eff. May 18, 1995; 2001 MR 8, Eff. Jul. 31, 2001; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30433**

**Source:** 1998-2000 AACS.

**R 408.30434**

**Source:** 1997 AACS.

**R 408.30437 Truss design drawings.**

Rule 437. Section 2303.4.1.2 of the code is amended to read as follows:

2303.4.1.2 Truss design drawings. Truss construction documents shall be prepared by a registered design professional and shall be provided to the building official and approved prior to installation. These construction documents shall include, at a minimum, the following information. Truss shop drawings shall be provided with the shipment of trusses delivered to the job site.

1. Slope or depth, span and spacing.
2. Location of joints.
3. Required bearing widths.
4. Design loads as applicable.
5. Top chord live load (including snow loads).
6. Top chord dead load.
7. Bottom chord live load.
8. Bottom chord dead load.
9. Concentrated loads and their points of application.
10. Controlling wind and earthquake loads.
11. Adjustments to lumber and metal connector plate design value for conditions of use.
12. Each reaction force and direction.
13. Metal connector plate type, size, thickness or gage, and the dimensioned location of each metal connector plate except where symmetrically located relative to the joint interface.
14. Lumber size, species, and grade for each member.
15. Connection requirements are required for all of the following:
  - a. Truss to truss girder.



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- b. Truss ply to ply.
- c. Field species.

16. Calculated deflection ratio or maximum deflection for live and total load.

17. Maximum axial compression forces in the truss members to enable the building designer to design the size, connections, and anchorage of the permanent continuous lateral bracing. Forces shall be shown on the truss construction documents or on supplemental documents.

18. Required permanent truss member bracing location.

History: 1988 MR 7, Eff. Aug. 10, 1988; 1992 MR 10, Eff. Nov. 7, 1992; 1995 MR 5, Eff. May 18, 1995; 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30442 Automatic sprinkler systems.**

Rule 442. Section 903.2.7 of the code is amended to read as follows:

903.2.7. Group R. An automatic sprinkler system installed in accordance with section 903.3 shall be provided throughout all buildings with a Group R fire area.

Exception: Camp buildings in remote areas without municipal water supply that meet all of the following:

1. Not more than 1 story, 2000 square feet (186 m<sup>2</sup>) and 25 occupants.
2. Are used not more than 5 months in a year.
3. Shall be provided with not less than 2 exits in compliance with section 1019.
4. Shall not be provided with cooking equipment.
5. Provided with a manual fire alarm system and smoke alarms throughout in compliance with NFPA 72 as listed in chapter 35. For cabins sleeping 4 or fewer occupants only, smoke alarms are required.
6. Storage and equipment rooms shall be protected by a 1-hour fire partition.
7. Compliance with all applicable requirements of the code.

History: 1954 ACS 101, Eff. Nov. 21, 1979; 1979 AC; rescinded 1979 ACS 8, Eff. Dec. 16, 1981; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30443**

**Source:** 2004 AACS.

**R 408.30444. Rescinded.**

History: 1954 ACS 79, Eff. Nov. 6, 1974; 1954 ACS 89, Eff. Nov. 13, 1976; 1954 ACS 101, Eff. Nov. 21, 1979; 1979 AC; 1979 ACS 8, Eff. Dec. 16, 1981; 1987 MR 3, Eff. Apr. 2, 1987; 1992 MR 10, Eff. Nov. 7, 1992; 1995 MR 5, Eff. May 18, 1995; 1998 MR 11, Eff. Nov. 30, 1998; 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30445 Automatic sprinkler systems.**

Rule 445. Section 903.2.10.3 of the code is amended to read as follows:

903.2.10.3. Buildings more than 30 feet (9144 mm) in height. An automatic sprinkler system shall be installed throughout a building that has a floor level which has an occupant load of 30 or more occupants and which is located 30 feet or more above the lowest level of fire department vehicle access.

Exceptions:

1. Airport control towers.
2. Open parking structures.
3. Occupancies in group F-2.
4. Existing buildings having occupied floor levels not more than 55 feet in height above the lowest level of fire department vehicle access, where the local unit of government complies with the following parameters:
  - 4.1. The local unit of government having a municipal fire department with an ISO rating of 3 or lower, employing a full time career fire fighting staff.
  - 4.2. The governing body of the local unit of government has passed a resolution affirming the use of this exception and filed that resolution with the department of labor & economic growth, bureau of construction codes.

History: 1954 ACS 79, Eff. Nov. 6, 1974; 1954 ACS 89, Eff. Nov. 13, 1976; 1954 ACS 101, Eff. Nov. 21, 1979; 1979 AC; 1979 ACS 8, Eff. Dec. 16, 1981; 1987 MR 3, Eff. Apr. 2, 1987; 1992 MR 10, Eff. Nov. 7, 1992; 1995 MR 5, Eff. May 18, 1995; 1998 MR 11, Eff. Nov. 30, 1998; 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30446 Smoke alarm locations.**

Rule 446. Sections 907.2.10.1.2.1 and 907.2.10.1.2.2 are added to the code as follows:

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907.2.10.1.2.1 Smoke alarm locations in existing buildings constructed before November 6, 1974. Within each dwelling unit or sleeping unit, a single-station smoke alarm shall be installed in the following locations:

1. In each sleeping room or each area directly outside the sleeping room.
2. On each floor level including the basement level.

For sleeping units with split levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than 1 full story below the upper level.

Section 907.2.10.1.2.2 Equipment requirements.

907.2.10.1.2.2. The required equipment for smoke alarms shall consist of the following:

1. Installation. Smoke alarm devices shall be listed and installed in accordance with the manufacturer's installation requirements, the provisions of the code, and the provisions of NFPA 72 as listed in chapter 35.
2. Power Source. The equipment shall be operable by power from 1 of the following primary sources:
  - a. The building wiring provided the wiring is served from a commercial source and is equipped with a battery backup. Wiring shall be permanent and without a disconnecting switch other than as required for overcurrent protection.
  - b. A non-rechargeable battery able to power the smoke alarm in the normal condition for a life of 5 years.
  - c. A rechargeable battery, with proper charging, able to power the alarm for a life of 5 years.
  - d. A commercial use alarm system with battery backup listed and approved in accordance with the commercial fire warning equipment provisions of NFPA 72, as adopted by reference in this rule.
3. Audible Alarm Notification. The activation of the alarm signal shall produce a sound that is audible in all occupiable dwelling areas.
4. Testing and Maintenance. The owner of a dwelling unit, in which required or optional fire detection or fire protection systems equipment is installed, shall be responsible for the proper operation, testing, and maintenance of the equipment in accordance with the manufacturer's instructions included with the equipment. The occupant of rental dwelling units shall be responsible for the periodic operational testing and periodic cleaning of the installed equipment within the rental unit in accordance with the testing instructions provided in the manufacturer's instructions for the equipment. If the system fails, breaks, or is out of service, it shall be repaired and functional within 30 days.

Exception: Smoke alarms and devices installed in buildings constructed before November 6, 1974 where an installation was approved by the appropriate enforcing agency under regulations in effect at the time of the installation shall be considered to comply with the provisions of the code.

History: 1979 ACS 8, Eff. Dec. 16, 1981; rescinded 1985 MR 7, Eff. July 30, 1985; 2005 MR 23, Eff. Mar. 14, 2006; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30447 Smokeproof enclosures.**

Rule 447. Section 1020.1.7 of the code is amended to read as follows:

1020.1.7. Smokeproof enclosures. In buildings required to comply with section 403 or 405 of the code, each of the exits of a building that serves stories where the floor surface is located more than 55 feet (16764 mm) above the lowest level of fire department vehicle access or more than 30 feet (9144 mm) below the level of exit discharge serving such floor levels shall be a smokeproof enclosure or pressurized stairway in accordance with section 909.20 of the code.

History: 1979 ACS 8, Eff. Dec. 16, 1981; 1985 MR 7, Eff. July 30, 1985; 1988 MR 7, Eff. Aug. 10, 1988; 1992 MR 10, Eff. Nov. 7, 1992; 1995 MR 5, Eff. May 18, 1995; 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30448 Electrical.**

Rule 448. Sections 2701.1, 2702.1, and 2702.2.6 of the code are amended to read as follows:

2701.1 Scope. This chapter governs the electrical components, equipment, and systems used in buildings and structures covered by the code. Electrical components, equipment, and systems shall be designed and constructed in accordance with the Michigan electrical code, R 408.30801 to R 408.30880.

2702.1. Installation. Emergency and standby power systems shall be installed in accordance with the Michigan electrical code, R 408.30801 to R 408.30880.

2702.2.6. Accessible means of egress platform lifts. Standby power in accordance with this section and the Michigan elevator code, R 408.7001 to R 408.8695, shall be provided for platform lifts that are part of an accessible means of egress in accordance with section 1007.5 of the code.

History: 1954 ACS 79, Eff. Nov. 6, 1974; 1954 ACS 89, Eff. Nov. 13, 1976; 1954 ACS 101, Eff. Nov. 21, 1979; 1979 ACS 8, Eff. Dec. 16, 1981; 1987 MR 3, Eff. Apr. 2, 1987; 1992 MR 10, Eff. Nov. 7, 1992; 1995 MR 5, Eff. May 18, 1995; 1998 MR 11, Eff. Nov. 30, 1998; 2001 MR 8, Eff. Jul. 31, 2001; 2008 MR 6, Eff. Aug. 1, 2008.

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**R 408.30448a**  
**Source:** 1997 AACS.

**R 408.30448b**  
**Source:** 1997 AACS.

**R 408.30448c**  
**Source:** 1997 AACS.

**R 408.30448d**  
**Source:** 2004 AACS.

**R 408.30449 Frost protection.**

Rule 449. Section 1805.2.1 of the code is amended to read as follows:

1805.2.1. Frost protection. Except where otherwise protected from frost, foundation walls, piers, and other permanent supports of buildings and structures shall be protected from frost by at least 1 of the following methods:

1. Extending not less than 42 inches (1067 mm) below finish grade.
2. Constructing in accordance with ASCE-32 listed in chapter 35.
3. Erecting on solid rock.

Exceptions:

1. Free-standing buildings meeting all of the following conditions shall not be required to be protected:
  - a. Classified in importance category I in accordance with section 1604.5 of the code.
  - b. Area of --600square feet (55.74 m<sup>2</sup>) or less for light-frame construction or 400 square feet (37 m<sup>2</sup>) or less for other than light-frame construction.
  - c. Eave height of 10 feet (3048 mm) or less.
2. Upon evidence of the existence of any of the following conditions, the building official may modify the footing depth accordingly:
  - a. Freezing temperatures.
  - b. Soil type.
  - c. Groundwater conditions.
  - d. Snow depth experience.
  - e. Exposure to the elements.
  - f. Other specific conditions identified by the building official that may affect the foundation system.

Footings shall not bear on frozen soil unless such frozen condition is of a permanent character.

History: 1954 ACS 101, Eff. Nov. 21, 1979; 1979 AC; 1979 ACS 8, Eff. Dec. 16, 1981; 1985 MR 7, Eff. July 30, 1985; 1988 MR 7, Eff. Aug. 10, 1988; 1992 MR 10, Eff. Nov. 7, 1992; 1995 MR 5, Eff. May 18, 1995; 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30449a**  
**Source:** 1997 AACS.

**R 408.30451e**  
**Source:** 1998-2000 AACS.

**R 408.30451a**  
**Source:** 1997 AACS.

**R 408.30451b**  
**Source:** 1997 AACS.

**R 408.30451c. Flood loads.**

Rule 451c. Section 1612.4 of the code is amended and 1612.3.1, 1612.4.1, 1612.4.2, 1612.4.3, 1612.4.4, and 1612.4.5 are added to the code to read as follows:

1612.3.1. Alternate flood hazard provisions. Absent the adoption of a flood hazard map and supporting data, flood hazard areas as determined by the state under its administration of the Part 31, floodplain regulatory authority of the natural resources and environmental protection act, 1994 PA 451, MCL 324.101 to 324.90106, shall become the basis for regulation of floodplain development within the community and section 1612 shall apply to buildings and structures within those areas.

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1612.4. Design and construction. Buildings and structures as defined in ASCE 24 table 1-1, listed in chapter 35, and located in flood hazard areas shall be designed and constructed in accordance with sections 1512.4.1 to 1612.4.5 of the code.

1612.4.1 Buildings and structures located in flood hazard areas subject to high velocity wave action shall be designed and constructed in accordance with flood hazard areas subject to high velocity wave action of ASCE 24 listed in chapter 35.

1612.4.2 Type II buildings located in flood hazard areas not subject to high velocity wave action shall be designed and constructed in accordance with section 2.0 basic requirements for flood hazard areas and shall have the lowest floors elevated 1 foot (305 mm) above the 100-year design flood elevation.

1612.4.3 Type III and IV buildings located in flood hazard areas not subject to high velocity wave action shall be designed and constructed in accordance with section 2.0 basic requirements for flood hazard areas and shall have the lowest floors elevated 1 foot (305 mm) above the 500-year flood level.

1612.4.4 If the lowest floor of nonresidential buildings and structures as defined in ASCE 24 listed in chapter 35 are located in flood hazard areas and are not elevated as required in accordance with sections 1612.4.2 and 1612.4.3, Type II buildings shall be flood proofed to 1 foot above the design flood elevations and Type III & IV buildings shall be flood proofed to 1 foot above the 500-year flood level in accordance with the flood proofing requirements contained in ASCE 24 listed in chapter 35.

1612.4.5 Crawl space interior floor grade elevation shall comply with section 1807.1.2.1 of the code.

History: 1992 MR 10, Eff. Nov. 7, 1992; 1995 MR 5, Eff. May 18, 1995; 2001 MR 8, Eff. Jul. 31, 2001; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30451d**

**Source:** 1997 AACS.

**R 408.30451e**

**Source:** 1995 AACS.

**R 408.30452**

**Source:** 1997 AACS.

**R 408.30453**

**Source:** 2001 AACS.

**R 408.30454**

**Source:** 1998-2000 AACS.

**R 408.30455**

**Source:** 1998-2000 AACS.

**R 408.30456**

**Source:** 1998-2000 AACS.

**R 408.30457 Mechanical systems.**

Rule 457. Section 2801.1 of the code is amended to read as follows:

2801.1. Scope. Mechanical appliances, equipment, and systems shall be constructed, installed, and maintained in accordance with the Michigan mechanical code, R 408.30901 to R 408.30998, and the international fuel gas code listed in chapter 35. Masonry chimneys, fireplaces, and barbeques shall comply with the Michigan mechanical code, R 408.30901 to R 408.30998, and chapter 21 of the code.

History: 1985 MR 7, Eff. July 30, 1985; 1988 MR 7, Eff. Aug. 10, 1988; 1995 MR 5, Eff. May 18, 1995; 2001 MR 8, Eff. Jul. 31, 2001; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30458 Elevators and conveying systems.**

Rule 458. Sections 3001.1, 3001.2, 3001.4, 3002.5, 3002.6, 3003.1, 3003.2, and 3004.4, of the code are amended and sections 3001.2.1, 3001.2.2, 3003.1.5 and 3004.5 are added to the code to read as follows:

3001.1. Scope. The design, construction, installation, alteration, and repair of elevators and conveying systems and their equipment shall conform with the requirements of the Michigan elevator laws and rules, MCL 408.801 to 408.824, MCL 338.2151 to 338.2160, and R 408.7001 to R 408.8695 and this chapter. Installation or construction in flood hazard areas established in section 1612.3 shall comply with ASCE 24 listed in chapter 35.

3001.2. Other devices. Other devices shall conform to the requirements of sections 3001.2.1 and 3001.2.2 of the code.

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3001.2.1. Conveyors. Conveyors and related equipment shall conform to the requirements of ASME B20.1 listed in chapter 35.

3001.2.2. Automotive lifts. Automotive lifts shall conform to the requirements of ALI ALCTV listed in chapter 35.

3001.4. Change in use. A change in use of an elevator from freight to passenger, passenger to freight, or from 1 freight class to another freight class shall comply with the requirements of the Michigan elevator code, R 408.7001 to R 408.8695.

3002.5. Emergency doors. Where an elevator is installed in a single blind hoistway or on the outside of a building, there shall be installed in the blind portion of the hoistway or blank face of the building, an emergency door in accordance with the requirements of the Michigan elevator code, R 408.7001 to R 408.8695.

3002.6. Prohibited doors. Doors, other than hoistway doors and the elevator car door, shall be prohibited at the point of access to an elevator car.

3003.1. Standby power. In buildings and structures where standby power is required or furnished to operate an elevator, the operation shall be in accordance with sections 3003.1.1 to 3003.1.5 of the code.

3003.1.5. Lighting. Where standby power is connected to elevators, the machine room, car top, pit, and landing lighting shall be connected to the standby power source.

3003.2. Fire-fighters' emergency operation. Elevators shall be provided with phase I emergency recall operation and phase II emergency in-car operation in accordance with the requirements of the Michigan elevator code, R 408.7001 to R 408.8695.

3004.4. Plumbing and mechanical systems. Plumbing and mechanical systems shall not be located in an elevator shaft.

Exception: Floor drains, sumps, and sump pumps exclusively for draining the elevator pit shall be permitted at the base of the shaft provided they are indirectly connected to the plumbing system.

3004.5. Construction at bottom of hoistway. Pits extending to the ground shall have noncombustible floors and be designed as to prevent entry of ground water into the pit. The pit floor of any hoistway not extending to the ground shall be of fire-resistive construction having a fire-resistance rating at least equal to that required for the hoistway enclosure.

History: 1988 MR 7, Eff. Aug. 10, 1988; 1992 MR 10, Eff. Nov. 7, 1992; 1995 MR 5, Eff. May 18, 1995; 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30459 Elevators.**

Rule 459. Sections 1007.4 and 1607.8.1 of the code are amended to read as follows:

1007.4. Elevators. To be considered part of an accessible means of egress, an elevator shall comply with the emergency operation and signaling device requirements of the Michigan elevator code, R 408.7001 to R 408.8695.

1607.8.1. Elevators. Elevator loads shall be increased by 100% for impact and the structural supports shall be designed within the limits of deflection prescribed by the Michigan elevator code, R 408.7001 to R 408.8695.

History: 1985 MR 7, Eff. July 30, 1985; 1988 MR 7, Eff. Aug. 10, 1988; rescinded 1992 MR 10, Eff. Nov. 7, 1992; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30460**

**Source:** 1997 AACCS.

**R 408.30461**

**Source:** 2004 AACCS.

**R 408.30475 Existing structures.**

Rule 475. Sections 3409.1, 3409.4 3409.6, 3409.7, 3409.8.2, 3409.8.3 and 3410.6.14 of the code are amended to read as follows:

3409.1. Scope. The provisions of sections 3409.2 to 3409.9 of the code apply to the maintenance, change of occupancy, additions, and alterations to existing buildings, including those identified as historic buildings in accordance with 1966 PA 1, MCL 125.1351 to 125.1356.

Exception: Type B dwelling or sleeping units required by section 1107 are not required to be provided in existing buildings and facilities.

3409.. Change of occupancy. Unless technically infeasible, section 3409.6 of the code shall be applied in accordance with 1966 PA 1, MCL 125.1351 to 125.1356.

3409.6. Alterations. A building, facility, or element that is altered shall comply with the applicable provisions in chapter 11 of the code and ICC/ANSI A117.1 listed in chapter 35, unless technically infeasible. When compliance with this section is technically infeasible, then the alteration shall provide access to the maximum extent technically feasible.

Exceptions:

1. The altered element or space is not required to be on an accessible route, unless required by section 3409.7 of the code.
2. Accessible means of egress required by chapter 10 of the code are not required to be provided in existing buildings and

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facilities.

3. Buildings, structures, or improved areas which exist on or before the effective date of these rules and which are in compliance with the code at the time of the issuance of the certificate of occupancy unless the alteration specifically modifies an area covered by sections 3409.7 to 3409.9.4 of the code.

4. The alteration to type A individually owned dwelling units within a group R-2 occupancy shall meet the provision for a type B dwelling unit and shall comply with the applicable provisions in chapter 11 and ICC/ANSI A 117.1 as listed in chapter 35.

3409.7. Alterations affecting an area containing a primary function. When an alteration affects the accessibility to, or contains an area of primary function, then the route to the primary function area shall be accessible. The accessible route to the primary function shall include accessible toilets and drinking fountains serving the area of the primary function.

Exceptions:

1. This section does not apply to alterations limited solely to windows, hardware, operating controls, electrical outlets, and signs.

2. This section does not apply to alterations limited solely to mechanical systems, electrical systems, the installation or alteration of fire-protection systems, and the abatement of hazardous materials.

3. This section does not apply to alterations undertaken for the primary purpose of increasing the accessibility of an existing building, facility, or element.

3409.8.2. Elevators. Altered elements of existing elevators shall comply with the Michigan elevator code, R 408.7001 to R 408.8695 and ICC/ANSI A 117.1 as listed in chapter 35. Such elements shall also be altered in elevators programmed to respond to the same hall call control as the altered elevator.

3409.8.3. Platform lifts. Platform (wheelchair) lifts complying with ICC/ANSI A 117.1 and installed in accordance with the Michigan elevator code, R 408.7001 to R 408.8695 shall be permitted as a component of an accessible route.

3410.6.14. Elevator control. Evaluate the passenger elevator equipment and controls that are available to the fire department to reach all occupied floors. Elevator recall controls shall be provided in accordance with the Michigan elevator code, R 408.7001 to R 408.8695. Under the categories and occupancies in table 3410.6.14, determine the appropriate value and enter that value into table 3410.7 of the code under safety parameter 3410.6.14, elevator control, for fire safety, means of egress and general safety. The values shall be zero for a single-story building.

History: 1985 MR 7, Eff. July 30, 1985; 1988 MR 7, Eff. Aug. 10, 1988; 1995 MR 5, Eff. May 18, 1995; 1998 MR 11, Eff. Nov. 30, 1998; 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30476**

**Source:** 2001 AACS.

**R 408.30495 Rodent proofing.**

Appendix F101.1 of the code is amended and F101.1.1 is added to the code to read as follows:

F101.1. General. Buildings or structures and the walls enclosing habitable or occupiable rooms and spaces in which people live, sleep, or work, or in which feed, food, or foodstuff is stored, prepared, processed, served, or sold shall be constructed in accordance with this section. Other buildings are subject to these requirements as provided in section F101.1.1 of the code.

F101.1.1. Additional buildings. In a community that has a vermin infestation program for the eradication of vermin enacted by local ordinance, all buildings identified within such an ordinance shall be constructed in accordance with this section.

History: 1985 MR 7, Eff. July 30, 1985; rescinded 1988 MR 7, Eff. Aug. 10, 1988; 2001 MR 8, Eff. Jul. 31, 2001; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30495a**

**Source:** 2004 AACS.

**R 408.30495b**

**Source:** 1997 AACS.

**R 408.30495c**

**Source:** 1997 AACS.

**R 408.30495d**

**Source:** 1997 AACS.

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**R 408.30495e**  
**Source:** 1997 AACS.

**R 408.30495f**  
**Source:** 1997 AACS.

**R 408.30495g**  
**Source:** 1997 AACS.

**R 408.30495h**  
**Source:** 1997 AACS.

**R 408.30495i**  
**Source:** 1997 AACS.

**R 408.30495j**  
**Source:** 1997 AACS.

**R 408.30495k**  
**Source:** 1997 AACS.

**R 408.30497**  
**Source:** 2001 AACS.

**R 408.30499 Adoption of standards by reference; referenced codes.**

Rule 499. Chapter 35 of the code is amended to add the following referenced codes, which are available from the Michigan Department of Labor & Economic Growth, Bureau of Construction Codes, 2501 Woodlake Circle, Okemos, Michigan 48864:

- |                                  |  |
|----------------------------------|--|
| (a) Michigan Electrical Code     | R 408.30801 to R 408.30880, of the Michigan Administrative Code. |
| (b) Michigan Mechanical Code     | R 408.30901 to R 408.30998a of the Michigan Administrative Code. |
| (c) Michigan Plumbing Code       | R 408.30701 to R 408.30796 of the Michigan Administrative Code.  |
| (d) Michigan Uniform Energy Code | R 408.31061 to R 408.31099 of the Michigan Administrative Code.  |
| (e) Michigan Elevator Code       | R 408.7001 to R 408.8695 of the Michigan Administrative Code.    |
| (f) Michigan Boiler Code         | R 408.4001 to R 408.5507 of the Michigan Administrative Code.    |

History: 1985 MR 7, Eff. July 30, 1985; 1988 MR 7, Eff. Aug. 10, 1988; 1995 MR 5, Eff. May 18, 1995; 1998 MR 11, Eff. Nov. 30, 1998; 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30499a**  
**Source:** 2001 AACS.

**RESIDENTIAL CODE**

**R 408.30501**  
**Source:** 2001 AACS.

**R 408.30502**  
**Source:** 2001 AACS.

**R 408.30503 Approved materials and equipment.**

Rule 503. Sections R104.9 of the code is amended to read as follows:

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R104.9. Approved materials and equipment. Materials, equipment, and devices shall be constructed or installed in accordance with approvals granted under the act or by the building official. The building official shall review reports prepared by recognized evaluation services and determine if the intent of the code is met.

History: 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30504 Alternative materials, design, and methods of construction and equipment.**

Rule 504. Section R104.11 of the code is amended to read as follows:

R104.11. Alternative materials, design, and methods of construction and equipment. The provisions of the code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by the code, if the alternative has been approved. An alternative material, design, or method of construction shall be approved where the building official finds that the proposed design is satisfactory and complies with the intent of the provisions of the code, and that the material, method, or work offered is, for the purpose intended, at least the equivalent of that prescribed in the code. Compliance with the specific performance-based provisions of the Michigan building, R 408.30401 to R 408.30547, electrical, R 408.30801 to

R 408.30880, mechanical, R 408.30901 to R 408.30998 and plumbing, R 408.30701 to

R 408.30796, codes instead of specific requirements of the code shall also be permitted as an alternate.

History: 2001 MR 8, Eff. Jul. 31, 2001; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30505 Work exempt from permit..**

Rule 505. Section R105.2 of the code is amended to read as follows:

R105.2. Work exempt from permit. Exemption from the permit requirements of the code shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of the code or any other laws or ordinances of this jurisdiction. Permits are not required for any of the following:

(a) Building permits shall not be required for any of the following:

(i) One-story detached accessory structures, if the floor area does not exceed 200 square feet (18.58 m<sup>2</sup>).

(ii) A fence that is not more than 6 feet (1829 mm) high.

(iii) A retaining wall that is not more than 4 feet (1219 mm) in height measured from the bottom of the footing to the top of the wall, unless supporting a surcharge.

(iv) A water tank supported directly upon grade if the capacity is not more than 5,000 gallons ( 18 927 L) and the ratio of height to diameter or width is not greater than 2 to 1.

(v) A sidewalk or driveway that is not more than 30 inches (762 mm) above adjacent grade and is not over any basement or story below.

(vi) Painting, papering, tiling, carpeting, cabinets, counter tops, and similar finish work.

(vii) A prefabricated swimming pool that is less than 24 inches (610 mm) deep.

(viii) Swings and other playground equipment accessory to a 1- or 2-family dwelling.

(ix) Window awnings supported by an exterior wall which do not project more than 54 inches (1372 mm) from the exterior wall and do not require additional support.

(b) Electrical permits shall not be required for the following:

Repairs and maintenance: A permit is not required for minor repair work, including the replacement of lamps or the connection of approved portable electrical equipment to approved permanently installed receptacles.

(c) Mechanical permits shall not be required for any of the following:

(i) Portable heating, cooking, or clothes drying appliances.

(ii) Replacement of any minor part that does not alter approval of equipment or make the equipment unsafe.

(iii) A portable heating appliance.

(iv) A portable ventilation appliance.

(v) A portable cooling unit.

(vi) Steam, hot or chilled water piping within any heating or cooling equipment regulated by the code.

(vii) Replacement of any minor part that does not alter approval of equipment or make the equipment unsafe.

(viii) A portable evaporative cooler.

(ix) A self-contained portable refrigeration unit that is not more than 1.5 horsepower (1119 W).

(x) Portable fuel cell appliances that are not connected to a fixed piping system and are not interconnected to a power grid.

(xi) Gas piping limited to 10 feet (3048 mm) in length and not more than 6 fittings.

(d) Plumbing permits shall not be required for any of the following:

(i) The stopping of leaks in drains, water, soil, waste or vent pipe; if any concealed trap, drainpipe, water, soil, waste or vent pipe becomes defective and it becomes necessary to remove and replace the same with new material, then the work is considered as new work and a permit shall be obtained and inspection made as provided in the code.



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(ii) The clearing of stoppages or the repairing of leaks in pipes, valves, or fixtures, and the removal and reinstallation of water closets, if the repairs do not involve or require the replacement or rearrangement of valves, pipes, or fixtures.  
History: 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30506 Submittal documents.**

Rule 506. Sections R106.1 and R802.10.1 of the code are amended and section R106.1.4 and figure 802.10.1 are added to the code to read as follows:

R106.1. Submittal documents. Construction documents, special inspection and structural program and other data shall be submitted in 1 or more sets with each application for a permit. The construction documents shall be prepared by or under the direct supervision of a registered design professional when required by 1980

PA 299, MCL 339.101 to 339.2721, and known as the Michigan occupational code. Where special conditions exist, the building official is authorized to require additional construction documents to be prepared by a registered design professional.

R106.1.4. Truss design data. As an alternative to the submission of truss design drawings, the truss design data sheet may be provided to the building official as part of the construction documents at the time of application. Truss design drawings shall be submitted to the building official prior to truss installation as required by section R802.10.1.

R802.10.1 Truss design drawings. Truss design drawings, prepared in conformance with section R802.10.1, shall be provided to the building official and approved prior to installation. The truss design data sheet, figure R802.10.1, may be provided to the building official at the time of permit application, as an alternative to design drawings as permitted in section R106.1.4. Truss design drawings shall include, at a minimum, the information specified below. Truss design drawings shall be provided with the shipment of trusses delivered to the jobsite.

1. Slope or depth, span, and spacing.
2. Location of all joints.
3. Required bearing widths.
4. Design loads as applicable.
  - a. Top chord live load (including snow loads).

## Roof Loading Data Sheet

Authority: 1972 PA 230

Completion:

Jurisdictional information should be included in this space

Completed prior to application for plan review and building permit. This form is a voluntary form used to assist in the permit approval process.

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Applicant's Name:		Date:
Applicant's Address:		Permit Number:
City:	State:	Zip:
Applicant's Signature:		
Job Location:		
Address:		
Township/Village/City:		County:

**THIS FORM SHOULD BE COMPLETED BY THE PERMIT APPLICANT, OR DESIGN PROFESSIONAL FOR C<sub>e</sub>, C<sub>t</sub>, AND I, PLACE AN "X" IN THE APPROPRIATE BOX THAT BEST DESCRIBES THE STRUCTURE.**

Ground Exposure, P <sub>g</sub> = _____	From Figure R301.2(5) MRC or Figure 1608.2 MBC
---	--

Exposure Factor C <sub>e</sub>					
Exposure		Fully Exposed <sup>1</sup>	Partially Exposed <sup>2</sup>	Sheltered <sup>3</sup>	
A	Large city center with at least 1/2 the buildings exceeding 70 ft. in height.	N/A	1.1	1.3	
B	Urban and suburban areas, wooded areas or other terrain with closely spaced objects having the size of single-family dwellings or larger.	0.9	1	1.2	
C	Open terrain with scattered obstructions having heights less than 30 ft. (flat open country)	0.9	1	N/A	
D	Flat unobstructed areas exposed to wind flowing over open water for a distance of at least 1 mile. (i.e. Great Lakes.)	0.8	0.9	N/A	

<sup>1</sup>Fully Exposed: Roofs exposed on all sides with no shelter by terrain, higher structures, or trees.

<sup>2</sup>Partially Exposed: All roofs except those designated as "fully exposed" or "sheltered."

<sup>3</sup>Sheltered: Roofs located tight among conifers that qualify as obstructions.

### Thermal Factor C<sub>t</sub>

Thermal Condition <sup>4</sup>	C <sub>t</sub>
All structures except as listed below	1
Structures kept just above freezing and those with cold, ventilated roofs with an R factor of 25 or greater between the ventilated and heated spaces, such as attics	1.1
Unheated structures and those intentionally kept below freezing, such as seasonal building or storage buildings	1.2
Continuously heated greenhouse with a roof R Value less than 2 and having an interior temperature maintained at about 50 degrees 3 ft above the floor during winter months and a temperature alarm system or an attendant to warn of a heating failure.	0.85

<sup>4</sup>These conditions shall be representative of the anticipated conditions during winter months for the life of the structure

### Importance Factor

Category	I
I Building and other structures representing low hazard to human life, i.e.: Agricultural, Temporary, and Minor Storage Facilities.	0.8
II All buildings except those listed in Categories III and IV.	1
III Building and other structures representing substantial hazard to human life in the event of failure.	1.1
IV Buildings and other structures designated as essential facilities.	1.2

### Attic Live Load

Entire Attic	Y/N
Specific Areas (if yes, list areas below)	Y/N
List Rooms:	

b. Top chord dead load.

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- c. Bottom chord live load.
- d. Bottom chord dead load.
- e. Concentrated loads and their points of application.
- f. Controlling wind and earthquake loads.
- 5. Adjustments to lumber and joint connector design values for conditions of use.
- 6. Each reaction force and direction.
- 7. Joint connector type and description (e.g., size, thickness, or gauge) and the dimensioned location of each joint connector except where symmetrically located relative to the joint interface.
- 8. Lumber size, species, and grade for each member.
- 9. Connection requirements for the following:
  - a. Truss to truss girder.
  - b. Truss ply to ply.
  - c. Field splices.
- 10. Calculated deflection ratio and/or maximum description for live and total load.
- 11. Maximum axial compression forces in the truss members to enable the building designer to design the size, connections, and anchorage of the permanent continuous lateral bracing. Forces shall be shown on the truss design drawing or on supplemental documents.
- 12. Required permanent truss member bracing location.

History: 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30507 Exhaust installation.**

Rule 507. Section G2439.3 (614.4) of the code is amended to read as follows:

G2439.3 (614.4). Exhaust installation. Dryer exhaust ducts for clothes dryers shall terminate on the outside of the building, shall not terminate within 4 feet of a ventilated section in a soffit, and shall be equipped with a backdraft damper. Screens shall not be installed at the duct termination. Ducts shall not be connected or installed with sheet metal screws or other fasteners that will obstruct the flow. Clothes dryer exhaust ducts shall not be connected to a vent connector, vent, or chimney. Clothes dryer exhaust ducts shall not extend into or through ducts or plenums.

History: 2001 MR 8, Eff. Jul. 31, 2001; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30508 Payment of fees.**

Rule 508. Section R108.1 of the code is amended to read as follows:

R108.1. Fees. The fees prescribed in the act shall be paid to the enforcing agency of the jurisdiction before a permit to begin work for new construction, alteration, removal, demolition, or other building operation may be issued. In addition, an amendment to a permit necessitating an additional fee shall not be approved until the additional fee is paid.

History: 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30509 Frame and masonry inspection.**

Rule 509. Section R109.1.4 of the code is amended to read as follows:

R109.1.4. Frame and masonry inspection. Inspection of framing construction shall be made after the roof, all framing, firestopping, draftstopping, and bracing are in place and after the plumbing, mechanical, and electrical rough inspections are approved. Masonry inspections shall be made after the completed installation of base course flashing as specified in section R703.7.5 of the code and water-resistive barrier as specified in section R703.2 of the code and after the masonry construction is completed.

History: 2001 MR 8, Eff. Jul. 31, 2001; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30510 Use and occupancy.**

Rule 510. Sections R110.1 and R110.2 of the code are amended to read as follows:

R110.1. Use and occupancy. A building or structure shall not be used or occupied, and a change in the existing occupancy classification of a building or structure or portion thereof shall not be made until a certificate of occupancy has been issued in accordance with the act.

R110.2. Change in use. A change in the character or use of an existing structure shall not be made, except as specified in the Michigan building code, R 408.30401 to

R 408.30547.

History: 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30511 Violation penalties.**

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Rule 511. Section R113.4 of the code is amended to read as follows:

R113.4. Violation penalties. It is unlawful for any person, firm, or corporation to violate a provision of the code or fail to conform with any of the requirements thereof, or erect, construct, alter, extend, repair, move, remove, demolish, or occupy any building, structure, or equipment regulated by the code, or cause work to be performed or done in conflict with or in violation of the approved construction documents or directive of the enforcing agency, or a permit or certificate issued under the code. A violator shall be assessed a fine in accordance with the act.

History: 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30512 Notice to owner.**

Rule 512. Section R114.1 of the code is amended to read as follows:

R114.1. Notice to owner. Upon notice from the enforcing agency, work on any building or structure that is being done contrary to the code or in a dangerous or unsafe manner shall immediately cease. The notice shall be in accordance with the act. Any person who is served with a stop work order, except for work that the person is directed to perform to remove a violation or unsafe condition is subject to the penalty provisions in the act.

History: 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30513 Definitions.**

Rule 513. The definitions of building, registered design professional, and sunroom addition in section R202 of the code are amended, the definition of residential building type is deleted, and the definition of structure is added to section R202 to read as follows:

R202. Definitions.

"Building" means a combination of materials, whether portable or fixed, forming a structure affording a facility or shelter for use or occupancy by persons, animals, or property. The term does not include a building incidental to the use for agricultural purposes of the land on which the building is located if it is not used in the business of retail trade. The term shall be construed as though followed by the words "or part or parts of the building and all equipment in the building" unless the context clearly requires a different meaning.

"Registered design professional" means an individual who is licensed under 1980 PA 299, MCL 339.2001 to 339.2721.

"Structure" means that which is built or constructed, an edifice or building of any kind, or a piece of work artificially built up or composed of parts joined together in some definite manner. Structure does not include a structure incidental to the use for agricultural purposes of the land on which the structure is located and does not include works of heavy civil construction including without limitation any of the following:

- (a) A highway.
- (b) A bridge.
- (c) A dam.
- (d) A reservoir.
- (e) A lock.
- (f) A mine.
- (g) A harbor.
- (h) A dockside port facility.
- (i) An airport landing facility.
- (j) A facility for the generation, or transmission, or distribution of electricity.

Structure shall be construed as though followed by the word "or part or parts of the structure and all equipment in the structure," unless the context clearly indicates otherwise.

"Sunroom addition" means a new structure with glazing in excess of 40% of the gross area of the structure's exterior walls and roof added to an existing dwelling.

History: 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30514 Means of appeal.**

Rule 514. Sections R112.1 and R112.3 of the code are amended to read as follows:

R112.1 Means of appeal. An interested person has the right to appeal a decision of the enforcing agency to the board of appeals in accordance with the act. An application for appeal shall be based on a claim that the true intent of the code or the rules governing construction have been incorrectly interpreted, the provisions of the code do not apply, or an equal or better form of construction is proposed. The decision of a local board of appeals may be appealed to the construction code

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commission in accordance with the act and timeframes.

Exception: Requests for barrier free design exception shall be in accordance with 1966 PA 1, MCL 125.1351 to 125.1356.

112.3 Qualifications. The board of appeals shall consist of members who are qualified in accordance with the act.

History: 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30515**

**Source:** 2004 AACs.

**R 408.30516 Design criteria.**

Rule 516. Table R301.2(1) of the code is amended and figures R301.2(7) and R301.2(8) are added to the code to read as follows:

TABLE R 301.2(1)

CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

	Wind Speed <sup>d</sup> (mph)	Seismic Design Category <sup>f</sup>	Subject to Damage From			Winter Design Temp <sup>e</sup>	Ice Barrier Underlay ment Required <sup>h</sup>	Flood Hazards <sup>g</sup>	Air Freezing Index <sup>i</sup>	Mean Annual Temp <sup>j</sup>
			Weathering <sup>a</sup>	Frostline depth <sup>b</sup>	Termite <sup>c</sup>					
e .2(5)	90	See Sec.R301.2.2.1 & Figure R301.2(2)	Severe	42" See Note b	Figure R301.2(6)	See Note e	Yes	See Note g	Figure R403.3(2)	See footnote J

For SI: 1 pound per square foot = 0.0479 kN/m<sup>2</sup>, 1 mile per hour = 1.609 km/h.

a. Weathering may require a higher strength concrete or grade of masonry than necessary to satisfy the structural requirements of this code. The weathering column shall be filled in with the weathering index (i.e., “negligible”, “moderate” or “severe”) for concrete as determined from the weathering probability map [figure R301.2(3)]. The grade of masonry units shall be determined from ASTM C 34, C 55, C 62, C 73, C 90, C 129, C 145, C 216 or C 652 as listed in chapter 43.

b. The frost line depth may be modified as provided in section R403.1.4 of the code.

c. The jurisdiction shall fill in this part of the table to indicate the need for protection depending on whether there has been a history of local damage.

d. The jurisdiction shall fill in this part of the table with the wind speed from the basic wind speed map [figure R301.2(4)]. Wind exposure category shall be determined on a site-specific basis in accordance with section R301.2.1.4 of the code.

e. The winter design temperature criteria shall be taken from appendix D of the Michigan plumbing code, R 408.30701 to R 408.30796.

f. Design category determined from section R301.2.2.1 of the code.

g. The jurisdiction shall fill in this part of the table with (a) the date of the jurisdiction’s entry into the national flood insurance program (date of adoption of the first code or ordinance for management of flood hazard areas), (b) the date(s) of the currently effective FIRM and FBFM or other flood hazard map adopted by the community, as may be amended. Absent (a) or (b), flood hazard areas as determined by the state under its administration of the Part 31, floodplain regulatory authority of the natural resources and environmental protection act, 1994 PA 451, MCL 324.101 to 324.90106, shall become the basis for regulation of floodplain development within the community and section R324 of the code shall apply to buildings and structures within those areas.

h. In accordance with sections R905.2.7.1, R905.4.3.1, R905.5.3.1, R905.6.3.1, R905.7.3.1 and R905.8.3.1 of the code, for areas where the average daily temperature in January is 25 degrees Fahrenheit (-4 degrees Celsius) or less, or where there has been a history of local damage from the effects of ice damming, the jurisdiction shall fill in this part of the table with “YES”. Otherwise, the jurisdiction shall fill in this part of the table with “NO”.

i. The jurisdiction shall fill in this part of the table with the 100-year return period air freezing index (bf-days) from figure R403.3(2) or from the 100-year (99%) value on the national climatic data center data table “air freezing index-USA method (base 32 degrees Fahrenheit)”.

j. The jurisdiction shall fill in this part of the table with the mean annual temperature from the national climatic data center data table “air freezing index-USA method (base 32 degrees Fahrenheit)” at [www.ncdc.noaa.gov/fpsf.html](http://www.ncdc.noaa.gov/fpsf.html).

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History: 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30517**

**Source:** 2004 AACCS.

**R 408.30518 Means of egress.**

Rule 518. Sections R311.6.4 and R311.4.2.1 are added to the code and R311.4.2 of the code is amended to read as follows:

R311.6.4 Modular ramps. Modular ramp systems approved pursuant to the act are not required to comply with the requirements of section R403.1.4 of the code.

R311.4.2. Door type and size. The required exit door shall be a side-hinged door not less than 3 feet (914 mm) in width and 6 feet, 8 inches (2032 mm) in height. Other exterior hinged or sliding doors shall not be less than 24 inches in width and 6 feet, 6 inches in height.

R311.4.2.1. Interior doors. Interior doors shall be not less than 24 inches in width and 6 feet, 6 inches in height.

Exception: Doors to areas less than 10 square feet of floor area.

History: 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30519**

**Source:** 2004 AACCS.

**R 408.30520 Wood wall framing. Rule 520. Section R602.10.5 of the code is amended to read as follows:**

R602.10.5. Continuous structural panel sheathing. When continuous wood structural panel sheathing is provided in accordance with method 3 of R602.10.3 of the code, including areas above and below openings, braced wall panel lengths shall be in accordance with table R602.10.5 of the code. Wood structural panel sheathing shall be installed at corners in accordance with figure R602.10.5 of the code. The bracing amounts in table R602.10.1 of the code for method 3 shall be permitted to be multiplied by a factor of 0.9 for walls with a maximum opening height that does not exceed 85% of the wall height or a factor of 0.8 for walls with a maximum opening height that does not exceed 67% of the wall height.

History: 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30521 Elevation requirements.**

Rule 521. Section R324.2.1 of the code is amended to read as follows:

R324.2.1. Elevation requirements. (1) Buildings and structures shall have the lowest floor including basements elevated so the lowest point of the floor's concrete or subfloor surface is 1 foot (305 mm) or more above the design flood elevation. The bottom of the lowest horizontal structural member of the floor system shall not be lower than the design flood elevation. Compliance with this elevation requirement shall be based upon measurement taken from the floor surface without the final floor covering and from the bottom of the lowest horizontal structural member of the floor system.

(2) Crawl space interior floor grade elevation shall comply with R408.6 of the code.

(3) Basement floors that are below grade on all sides shall be considered lowest floors and shall be elevated so that the lowest point of the floor surface is 1 foot (305 mm) or more above the design flood elevation. Compliance with this elevation requirement shall be based upon measurement taken from the floor surface without the final floor covering.

Exception: Enclosed areas below the design flood elevation, including basements that have floors which are not below grade on all sides, shall meet the requirements of section R324.2.2 of the code.

History: 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30522 Minimum depth.**

Rule 522. Section R403.1.4 of the code is amended to read as follows:

R403.1.4. Minimum depth. All exterior footings and foundation systems shall extend 42 inches below actual grade. Where applicable, the depth of the footings shall also conform to sections R403.1.4.1 to R403.1.4.2 of the code.

Exception:

Upon evidence of the existence of any of the following conditions, the building official may modify the footing depth accordingly:

- (a) Freezing temperatures (freezing degree days).
- (b) Soil type.
- (c) Ground water conditions.
- (d) Snow depth experience.
- (e) Exposure to the elements.
- (f) Other specific conditions identified by the building official that may affect the foundation system.

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History: 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30522a Concrete and masonry foundation walls.**

Rule 522a. Section R404.1 is added to the code to read as follows:

R404.1 Concrete and masonry foundation walls. Concrete and masonry foundation walls shall be selected and constructed in accordance with the provisions of section R404 or in accordance with ACI 318, ACI 332, NCMA TR68-A or ACI 530/ASCE 5/TMS 402 or other approved structural standards. When ACI 318, ACI 332 or ACI 530/ASCE 5/TMS 402 or the provisions of section R404 are used to design concrete or masonry foundation walls, project drawings, typical details and specifications are not required to bear the seal of the architect or engineer responsible for design, unless otherwise required by the state law of the jurisdiction having authority.

History: 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30523**

**Source:** 2004 AACS.

**R 408.30524**

**Source:** 2004 AACS.

**R 408.30525 Scope.**

Rule 525. Section M1301.1 of the code is amended to read as follows:

M1301.1. Scope. The provisions of this chapter shall govern the installation of mechanical systems not specifically covered in other chapters applicable to mechanical systems. Installations of mechanical appliances, equipment, and systems not addressed by the code shall comply with the applicable provisions of the Michigan mechanical code, R 408.30901 to R 408.30998 and the international fuel gas code.

History: 2001 MR 8, Eff. Jul. 31, 2001; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30526 Sizing.**

Rule 526. Section M1401.3 of the code is amended to read as follows:

M1401.3. Sizing. Heating and cooling equipment shall be sized in accordance with ACCA manual S 3-2004, as listed in chapter 43, based on building loads calculated in accordance with the provisions of ACCA Manual J-2002 listed in chapter 43 or other approved heating and cooling calculation methodologies. Ductwork shall be sized in accordance with the provisions of ACCA Manual D-1995, as listed in chapter 43.

History: 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30527**

**Source:** 2001 AACS.

**R 408.30528**

**Source:** 2001 AACS.

**R 408.30528 Terms defined in other codes.**

Rule 528. Section G2402.3 of the code is amended to read as follows:

G2402.3. Terms defined in other codes. Where terms are not defined in the code and are defined in the Michigan electrical code, R 408.30801 to R 408.30880, Michigan building code, R 408.30401 to R 408.30547, international fire code listed in chapter 43, Michigan mechanical code, R 408.30901 to R 408.30998 or Michigan plumbing code, R 408.30701 to R 408.30796, the terms shall have the meanings ascribed to them as in those codes.

History: 2001 MR 8, Eff. Jul. 31, 2001; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30529 Lining required.**

Rule 529. Section P2709.2 of the code is amended as follows:

P2709.2. Lining required. The adjoining walls and floor framing enclosing on-site built-up shower receptors shall be lined with sheet lead, copper, or a plastic liner material that complies with ASTM D 4068 or ASTM D 4551 listed in chapter 43. The lining material shall extend not less than 3 inches (76 mm) beyond or around the rough jambs and not less than 3 inches (76 mm) above the finished thresholds.

History: 2001 MR 8, Eff. Jul. 31, 2001; 2008 MR 6, Eff. Aug. 1, 2008.

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**R 408.30530 Requirements for discharge pipe.**

Rule 530. Section P2803.6.1 of the code is amended to read as follows:

P2803.6.1. Requirements for discharge pipe. Relief valves shall not discharge so as to be a hazard, a potential cause of damage, or a nuisance. A relief valve discharge pipe shall be provided for each individual relief valve and shall meet all of the following:

- a. Shall terminate atmospherically not more than 4 inches (102 mm) from the floor with an unthreaded end.
- b. Shall not be interconnected.
- c. Valves shall not be connected in the relief valve discharge pipe.
- d. Shall be rigid pipe approved for water distribution, with a minimum temperature rating of 210 degrees Fahrenheit.
- e. Shall have the same nominal inside diameter as the relief valve outlet and shall drain by gravity flow.

The outlet of a pressure, temperature, or other relief valve shall not be directly connected to the drainage system.

History: 2001 MR 8, Eff. Jul. 31, 2001; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30531 Duct construction.**

Rule 531. Section M1601.3.1 of the code is amended to read as follows:

M1601.3.1. Joints and seams. Joints of duct systems shall be made substantially airtight by means of tapes, mastics, gasketing, cleats, or other approved closure systems. Joints of duct systems located outside the building thermal envelope shall be made airtight by means of tapes, mastics, caulk, gasketing, or other approved sealants. Closure systems used with rigid fibrous glass ducts shall comply with UL 181A and shall be marked "181A-P" for pressure-sensitive tape, "181A-M" for mastic or "181A-H" for heat-sensitive tape. Closure systems used with flexible air ducts and flexible air connectors shall comply with UL 181B and shall be marked "181B-FX" for pressure-sensitive tape or "181B-M" for mastic. Duct connections to flanges of air distribution system equipment or sheet metal fittings shall be mechanically fastened. Mechanical fasteners for use with flexible nonmetallic air ducts shall comply with UL 181B and shall be marked 181B-C. Crimp joints for round ducts shall have a contact lap of at least 1.5 inches (38 mm) and shall be mechanically fastened by means of at least 3 sheet metal screws or rivets spaced around the joint.

History: 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30532**

**Source:** 2001 AACS.

**R 408.30533**

**Source:** 2001 AACS.

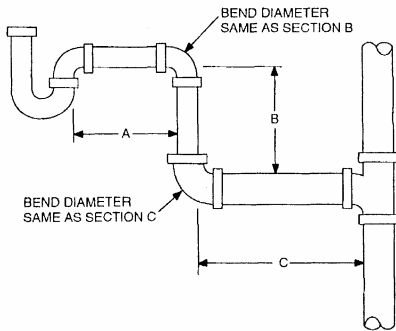
**R 408.30534 Venting. Rule 534. Section P3105.1 and tables 3002.1 (1), 3002.1 (2) and 3002.2 are amended and section 3105.4 and figure 3105.4 are added to the code and figure N3 in appendix N of the code is amended to read as follows:**

P3105.1. Distance of trap from vent. Each fixture trap shall have a protecting vent located so that the slope and the developed length in the fixture drain from the trap weir to the vent fitting are within the requirements set forth in table P3105.1 of the code.

P3105.4. Vertical leg for waste fixture drains. A vertical leg (see figure P3105.4) is permitted within a fixture drain of a waste fixture in accordance with the following criteria:

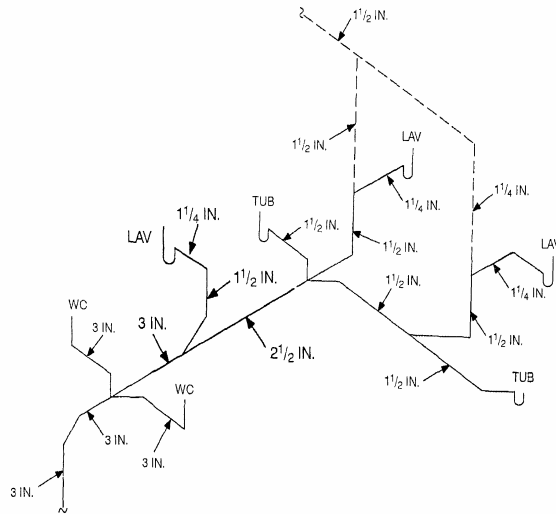
1. Minimum trap diameter shall be in accordance with table P3201.7 of the code.
2. The diameter of section A shall be equal to the diameter of the trap.
3. The length of section A shall not be less than 8 inches (203 mm) and in accordance with table P3105.1 of the code.
4. The diameter of section B shall be 1 pipe size larger than the diameter of Section A.
5. The length of section B shall not be more than 36 inches (914 mm).
6. The diameter of section C shall be 1 pipe size larger than the diameter of section B.
7. The total length of section A and section C shall not exceed the distance allowed in table P3105.1 of the code.
8. Bends shall be the diameter of the largest connected section.





**FIGURE P3105.4**  
**VERTICAL LEG FIXTURE DRAIN SCHEMATIC**

Figure N3. Typical horizontal wet venting.



For SI: 1 inch = 25.4 mm.

**Note:** The lower lavatory connected to the horizontal part of the wet vent illustrates a portion of Section P3105.4 Vertical leg for waste fixture drains.

**FIGURE N3**  
**TYPICAL HORIZONTAL WET VENTING**

TABLE P3002.1 (1)

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MATERIAL	STANDARD
Acrylonitrile butadiene styrene (ABS) plastic pipe	ASTM D 2661; ASTM F 628; CSA B 181.1
Brass pipe	ASTM B 43
Cast-iron pipe	ASTM A 74; CISPI 301; ASTM A 888
Coextruded composite ABS DWV schedule 40 IPS pipe (solid)	ASTM F 1488
Coextruded composite ABS DWV schedule 40 IPS pipe (cellular core)	ASTM F 1488
Coextruded composite PVC DWV schedule 40 IPS pipe (solid)	ASTM F 1488
Coextruded composite PVC DWV schedule 40 IPS pipe (cellular core)	ASTM F 1488; ASTM F 891
Coextruded composite ABS IPS-DR, PS140, PS200 DWV	ASTM F 1488
Coextruded composite PVC IPS-DR, PS140, PS200 DWV	ASTM F 1488
Copper or copper-alloy pipe	ASTM B 42; ASTM B 302
Copper or copper-alloy tubing (Type K, L, M or DWV)	ASTM B 75; ASTM B 88; ASTM B 251; ASTM B 306
Galvanized steel pipe	ASTM A 53
Polyolefin pipe	CSA B181.3
Polyvinyl chloride (PVC) plastic pipe (Type DWV)	ASTM D 2665; ASTM D 2949; CSA B181.2; ASTM F 1488
Stainless steel drainage systems, Types 304 and 316L	ASME A112.3.1

ABOVE-GROUND DRAINAGE AND VENT PIPE

TABLE P3002.1(2)

UNDERGROUND BUILDING DRAINAGE AND VENT PIPE

MATERIAL	STANDARD
Acrylonitrile butadiene styrene (ABS) plastic pipe	ASTM D 2661; ASTM F 628; CSA B181.1
Asbestos-cement pipe	ASTM C 428
Cast-iron pipe	ASTM A 74; CISPI 301; ASTM A 888
Coextruded composite ABS DWV schedule 40 IPS pipe (solid)	ASTM F 1488
Coextruded composite ABS DWV schedule 40 IPS pipe (cellular core)	ASTM F 1488
Coextruded composite PVC DWV schedule 40 IPS pipe (solid)	ASTM F 1488
Coextruded composite PVC DWV schedule 40 IPS pipe (cellular core)	ASTM F 891; ASTM F 1488
Coextruded composite ABS IPS-DR, PS140, PS200 DWV	ASTM F 1488
Coextruded composite PVC IPS-DR, PS140, PS200 DWV	ASTM F 1488
Copper or copper alloy tubing (Type K, L, M or DWV)	ASTM B 75; ASTM B 88; ASTM B 251; ASTM B 306
Polyolefin pipe	ASTM F 1412; CSA B181.3
Polyvinyl chloride (PVC) plastic pipe (Type DWV)	ASTM D 2665; ASTM D 2949; CSA B181.2
Stainless steel drainage systems, Type 316L	ASME A112.3.1

TABLE P3002.2

BUILDING SEWER PIPE

MATERIAL	STANDARD
Acrylonitrile butadiene styrene (ABS) plastic pipe	ASTM D 2661; ASTM D 2751; ASTM F 628
Asbestos-cement pipe	ASTM C 428
Cast-iron pipe	ASTM A 74; ASTM A 888; CISPI 301
Coextruded composite ABS DWV schedule 40 IPS pipe (solid)	ASTM F 1488
Coextruded composite ABS DWV schedule 40 IPS pipe (cellular core)	ASTM F 1488
Coextruded composite PVC DWV schedule 40 IPS pipe (solid)	ASTM F 1488

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Coextruded composite PVC DWV schedule 40 IPS pipe (cellular core)	ASTM F 1488; ASTM F 891
Coextruded composite ABS IPS-DR-PS DWV, PS140, PS200	ASTM F 1488
Coextruded composite PVC IPS-DR-PS DWV, PS140, PS200	ASTM F 1488
Coextruded composite ABS sewer and drain DR-PS in PS35, PS50, PS100, PS140, PS200	ASTM F 1488
Coextruded composite PVC sewer and drain DR-PS in PS35, PS50, PS100, PS140, PS200	ASTM F 1488
Coextruded composite PVC sewer and drain PS 25, PS 50, PS 100 (cellular core)	ASTM F 891
Concrete pipe	ASTM C 14; ASTM C 76; CSA A 257.1M; CSA A 257.2M
Copper or copper-alloy tubing (Type K or L)	ASTM B 75; ASTM B 88; ASTM B 251
Polyethylene (PE) plastic pipe (SDR-PR)	ASTM F 714
Polyolefin pipe	ASTM F 1412; CSA B181.3
Polyvinyl chloride (PVC) plastic pipe (Type DWV, SDR 26, SRD35, SDR41, PS50 or PS100)	ASTM D 2665; ASTM D 2949; ASTM D 3034; ASTM F 1412; CSA B182.2; CSA B182.4
Stainless steel drainage systems, Types 304 and 316L	ASME A112.3.1
Vitrified clay pipe	ASTM C 425; ASTM C 700

History: 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30535**

**Source:** 2001 AACS.

**R 408.30536 Electrical, general, electrical conductors and connections and electrical grounding.**

Rule 536. Sections E3301.1, E 3301.2, E3306.7, E3808.8.1, E3808.8.2, and table E3502.2 of the code are amended to read as follows:

E3301.1. Applicability. The provisions of chapters 33 to 42 of the code shall establish the general scope of the electrical system and equipment requirements of the code. Chapters 33 to 42 of the code cover those wiring methods and materials most commonly encountered in the construction of 1- and 2-family dwellings and structures regulated by the code. Other wiring methods, materials, and subject matter covered in the Michigan electrical code, R 408.30801 to R 408.30880 are also allowed by the code.

E3301.2. Scope. Chapters 33 to 42 of the code shall cover the installation of electrical systems, equipment, and components indoors and outdoors that are within the scope of the code, including services, power distribution systems, fixtures, appliances, devices, and appurtenances. Services within the scope of the code shall be limited to 120/240 volt, 0- to 400- ampere, single-phase systems. These chapters specifically cover the equipment, fixtures, appliances, wiring methods, and materials that are most commonly used in the construction or alteration of 1- and 2-family dwellings and accessory structures regulated by the code. The omission from these chapters of any material or method of construction provided by the Michigan electrical code, R 408.30801 to R 408.30880, shall not be construed as prohibiting the use of such material or method of construction. Electrical systems, equipment, or components not specifically covered in these chapters shall comply with the applicable provisions of the Michigan electrical code, R 408.30801 to R 408.30880.

E3306.7. Conductors of the same circuit. All conductors of the same circuit and, where used, the grounded conductor and all equipment grounding conductors shall be contained within the same raceway, cable, trench or cord.

TABLE E3502.2  
MINIMUM SERVICE LOAD CALCULATION

LOADS AND PROCEDURE
3 volt-amperes per square foot of floor area for general lighting and general use receptacle outlets.
Plus
1,500 volt-amperes total number of 20-ampere-rated small appliance and laundry circuits.
Plus

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The nameplate volt-ampere rating of all fastened-in-place, permanently connected or dedicated circuit-supplied motors and appliances such as ranges, ovens, cooking units, clothes dryers, and water heaters.
Apply the following demand factors to the above subtotal:
The minimum subtotal for the loads above shall be 100% of the first 10,000 volt-amperes of the sum of the above loads plus 40% of any portion of the sum that is in excess of 10,000 volt-amperes.
Plus the largest of the following:
Nameplate rating(s) of the air-conditioning and cooling equipment.
Nameplate rating(s) of the heating where a heat pump is used without any supplemental electric heating.
Nameplate rating of the electric thermal storage and other heating systems where the usual load is expected to be continuous at the full nameplate value. Systems qualifying under this selection shall not be figured under any other category in this table.
One hundred percent of nameplate rating of the heat pump compressor and 65 percent of the supplemental electric heating load for central electric space-heating systems. If the heat pump compressor is prevented from operating at the same time as the supplementary heat, the compressor load does not need to be added to the supplementary heat load for the total central electric space-heating load.
Sixty-five percent of nameplate rating(s) of electric space-heating units if less than 4 separately controlled units.
Forty percent of nameplate rating(s) of electric space-heating units of 4 or more separately controlled units.
The minimum total load in amperes shall be the volt-ampere sum calculated above divided by 240 volts.

E3808.8.1. Grounding of flexible metal conduit. Flexible metal conduit shall not be permitted as an equipment grounding conductor. E3808.8.2. Grounding of liquid-tight flexible metal conduit. Liquid-tight flexible metal conduit shall not be permitted as an equipment grounding conductor.

History: 2001 MR 8, Eff. Jul. 31, 2001; 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30537**

**Source:** 2004 AACS.

**R 408.30538**

**Source:** 2001 AACS.

**R 408.30539 Solvent cementing.**

Rule 539. Section P3003.14.2 of the code is amended to read as follows:

P3003.14.2 Solvent cementing. Joint surfaces shall be clean and free from moisture. A primer that conforms to ASTM F 656, as listed in chapter 43, shall be applied. Solvent cement not purple in color and conforming to ASTM D 2564, CSA B137.3 or CSA B181.2, as listed in chapter 43, shall be applied to all joint surfaces. The joint shall be made while the cement is wet, and shall be in accordance with ASTM D 2855, as listed in chapter 43. Solvent-cement joints shall be permitted above or below ground.

History: 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30540 Elevators and platform lifts.**

Rule 540. Sections R323.1 and R323.2 of the code are amended to read as follows:

R323.1. Elevators. Where provided, passenger elevators, limited-use/limited-application elevators or private residence elevators shall comply with the Michigan elevator rules R 408.7001 to R 408.8695.

R323.2. Platform lifts. Where provided, platform lifts shall comply with the Michigan elevator rules R 408.7001 to R 408.8695.

History: 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30541**

**Source:** 2004 AACS.

**R 408.30542**

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**Source:** 2004 AACCS.

**R 408.30543 Boiler low-water cutoff.**

Rule 543. Section M2002.5 of the code is amended to read as follows:

M2002.5. Boiler low-water cutoff. All steam and hot water boilers shall be protected with a low-water cutoff control. The low-water control shall automatically stop the combustion operation of the appliance when the water level drops below the lowest safe water level as established by the manufacturer. The low-water cut off on all low-pressure boilers shall be installed in accordance with the Michigan boiler rules, R 408.4001 to R 408.5507.

A low-water cutoff shall be of the float or probe type or paddle-type non-reversing flow switch.

History: 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30544 Light, ventilation and heating.**

Rule 544. Section R303.4.2 of the code is amended to read as follows:

R303.4.2. Exhaust openings. Outside exhaust openings shall be located as not to create a nuisance. Exhaust openings shall not be directed onto walkways. Exhaust openings shall not terminate within 2 feet of a ventilated section in a soffit.

History: 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30545 Exterior covering.**

Rule 545. Sections R703.7.3, R703.7.4.1, 703.7.5 and R703.7.6 and figures R703.7, R703.7.2.1, and R703.7.2.2, of the code are amended to read as follows:

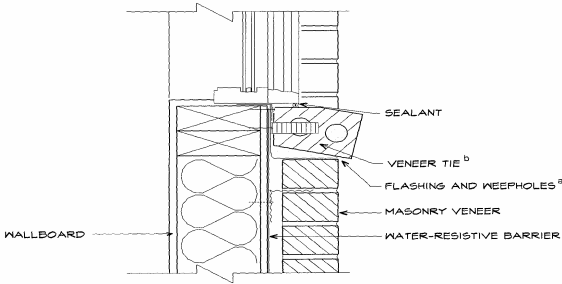
R703.7.3. Lintels. Masonry veneer shall not support any vertical load other than the dead load of the veneer above. Veneer above openings shall be supported on lintels of noncombustible materials and the allowable span shall not exceed the values set forth in Table R703.7.3 of the code. The lintels shall have a length of bearing not less than 4 inches (102 mm). Steel lintels shall be corrosion-resistant.

R703.7.4.1. Size, spacing, and corrosion protection. Veneer ties, if strand wire, shall not be less in thickness than no. 9 U.S. gauge [(0.148 in.) (4 mm)] wire and shall have a hook embedded in the mortar joint, or if sheet metal, shall be not less than no. 22 U.S. gauge [(0.0299 in.) (0.76 mm)] by 7/8 inch (22 mm) corrugated. Each tie shall be spaced not more than 24 inches (610 mm) on center horizontally and vertically and shall support not more than 2.67 square feet (0.25 m<sup>2</sup>) of wall area. Corrosion protection shall be provided for all veneer ties as required by section R606.15.1 of the code.

703.7.5. Flashing. Approved flashing shall be installed beneath the first course of masonry above finished ground level above the foundation wall or slab and at other points of support, including structural floors, shelf angles and lintels when masonry veneers are designed in accordance with section R703.7 of the code. See section R703.8 of the code for additional requirements.

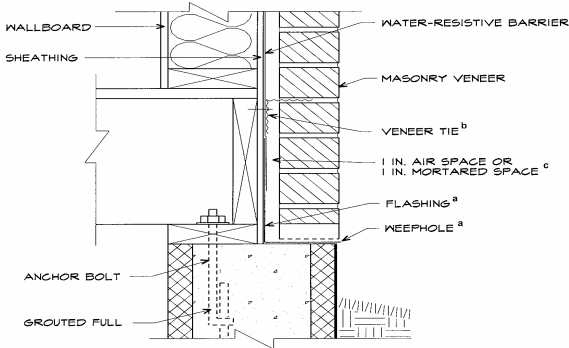
R703.7.6. Weepholes. Weepholes shall be provided in the outside wythe of masonry walls at a maximum spacing of 33 inches (838 mm) on center. Weepholes shall not be less than 3/16 inch (5 mm) in diameter. Weepholes shall be located immediately above and directly on the flashing.

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FOR SI: 1 INCH = 25.4 mm

FIGURE R103.7  
MASONRY VENEER WALL DETAILS  
(CONTINUED)



FOR SI: 1 INCH = 25.4 mm

FIGURE R103.7  
MASONRY VENEER WALL DETAILS  
(CONTINUED)

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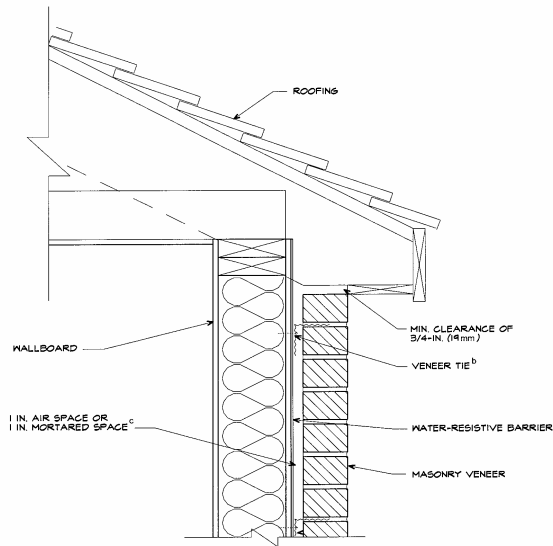


FIGURE R103.1-CONTINUED  
MASONRY VENEER WALL DETAILS

FOR SI: 1 INCH = 25.4 mm

- <sup>a</sup> SEE SECTIONS R103.1.5, R103.1.6 AND R103.8.
- <sup>b</sup> SEE SECTIONS R103.2 AND R103.1.4.
- <sup>c</sup> SEE SECTIONS R103.1.4.2 AND R103.1.4.3.
- <sup>d</sup> SEE SECTION R103.1.3.

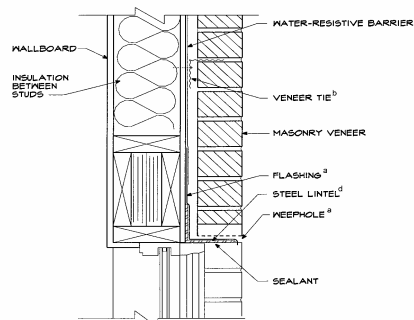
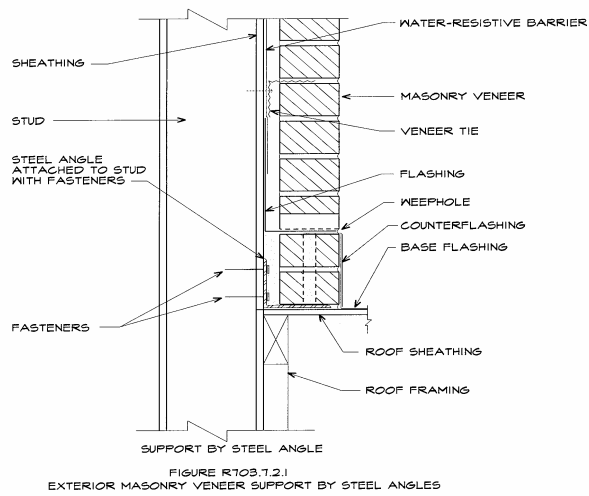
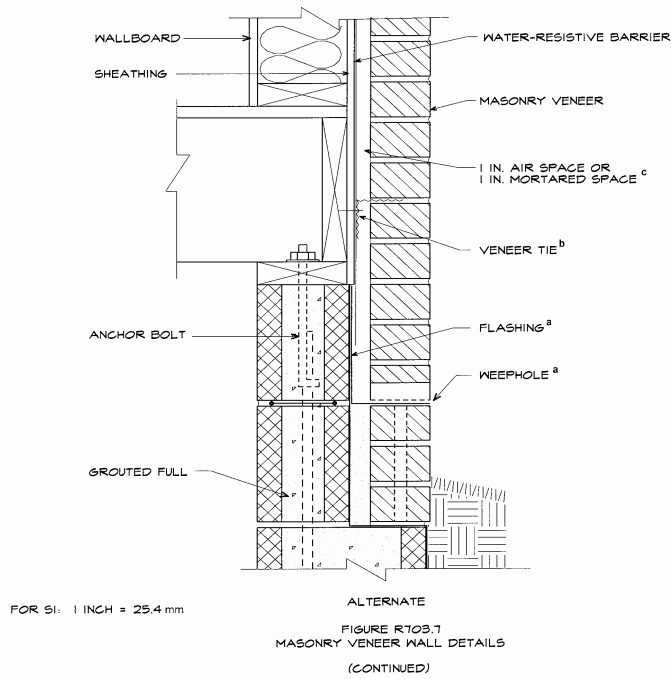


FIGURE R103.1-CONTINUED  
MASONRY VENEER WALL DETAILS

FOR SI: 1 INCH = 25.4 mm

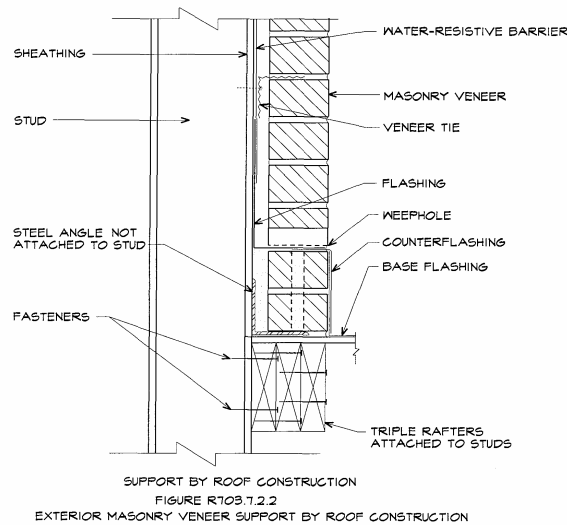
- <sup>a</sup> SEE SECTIONS R103.1.5, R103.1.6 AND R103.8.
- <sup>b</sup> SEE SECTIONS R103.2 AND R103.1.4.
- <sup>c</sup> SEE SECTIONS R103.1.4.2 AND R103.1.4.3.
- <sup>d</sup> SEE SECTION R103.1.3.

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History: 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30546 Smoke alarm locations.**

Rule 546. Sections R313.4 and R313.-5 of the code are amended to read as follows:

R313.4. Smoke alarm locations in existing buildings constructed before November 6, 1974. Within each dwelling unit or sleeping unit, a single-station smoke alarm shall be installed in the following locations:

1. In each sleeping room or each area directly outside the sleeping room.
2. On each floor level including the basement level.

For sleeping units with split levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than 1 full story below the upper level.

R313.5. Equipment requirements. The required equipment for smoke alarms shall consist of the following:

1. Installation. Smoke alarm devices shall be listed and installed in accordance with the manufacturer's installation requirements, the provisions of the code and the provisions of NFPA 72 as listed in chapter 43.
2. Power Source. The equipment shall be operable by power from 1 of the following primary sources.
  - a. The building wiring provided that such wiring is served from a commercial source and is equipped with a battery backup. Wiring shall be permanent and without a disconnecting switch other than as required for overcurrent protection.
  - b. A non-rechargeable battery that is capable of operating the smoke alarm in the normal condition for a life of 5 years.
  - c. A rechargeable battery, with proper charging, able to power the alarm for a life of 5 years and shall be automatically recharged by an AC circuit of the commercial light and power source.
  - d. A household use alarm system with battery backup listed and approved in accordance with the household fire warning equipment provisions of NFPA 72, as referenced in Section R313.4 of the code.
3. Audible Alarm Notification. The activation of the alarm signal shall produce a sound that is audible in all occupiable dwelling areas.
4. Testing and Maintenance. The owner of a dwelling unit, in which required or optional fire detection or fire protection systems equipment is installed, shall be responsible for the proper operation, testing, and maintenance of the equipment in accordance with the manufacturer's instructions included with the equipment. The occupant of rental dwelling units shall be

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responsible for the periodic operational testing and periodic cleaning of the installed equipment within the rental unit in accordance with the testing instructions provided in the manufacturer's instructions for the equipment. If the system fails, breaks, or is out of service, it shall be repaired and functional within 30 days.

Exception: Smoke alarms and devices installed in buildings constructed before November 6, 1974 where an installation was approved by the appropriate enforcing agency under regulations in effect at the time of the installation shall be considered to comply with the provisions of the code.

History: 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30547. Barrier requirements.**

Rule 547. Section AG105.5 of the code is amended to read as follows.

Section AG105.5. Barrier exceptions. Spas or hot tubs with a safety cover which complies with ASTM F 1346, as listed in section AG107 of the code, shall be exempt from the provisions of sections AG105.2, AG105.3, and AG105.4 of the code.

History: 2004 MR 4, Eff. Feb. 29, 2004; 2008 MR 6, Eff. Aug. 1, 2008.

**REHABILITATION CODE**

**R 408.30551 Applicable code.**

Rule 551. The international existing building code, 2006 edition, including appendix A and resource A, hereinafter referred to as "the code," is adopted by reference, as provided in MCL 24.232, as the "Michigan rehabilitation code for existing buildings" with the exception of sections 104.8, 108.2 to 108.6, 114.3, 605.1.1 to 605.2, 706.2, 706.3 and 1104.1.1 to 1104.1.4, 1105.15 and Appendix B, and as otherwise noted in these rules. The international existing building code, 2006 edition is available for inspection at the Okemos office of the Michigan Department of Labor & Economic Growth, Bureau of Construction Codes or from International Code Council, 500 New Jersey Avenue, N.W., 6<sup>th</sup> Floor, Washington, D.C. 20001, at a cost as of the time of adoption of these rules of \$47.00.

History: 2002 AACS; 2003 AACS; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30552**

**Source:** 2002 AACS.

**R 408.30553**

**Source:** 2002 AACS.

**R 408.30554**

**Source:** 2002 AACS.

**R 408.30555**

**Source:** 2003 AACS.

**R 408.30556 Elevators.**

Rule 556. Section 802.1.2 of the code is amended as follows:

802.1.2. Elevators. Where there is an elevator or elevators for public use, at least 1 elevator serving the work area shall comply with this section. Existing elevators with a travel distance of 25 feet (7620 mm) or more above or below the main floor or other level of a building and intended to serve the needs of emergency personnel for fire fighting or rescue purposes shall be provided with emergency operation in accordance with the Michigan elevator code. New elevators shall be provided with phase I emergency recall operation and phase II emergency in-car operation in accordance with the Michigan elevator code.

History: 2002 AACS; 2008 MR 6, Aug. 1, 2008.

**R 408.30557 Definitions.**

Rule 557. The definition of act and building official are added to section 202 of the code to read as follows: 202. Definitions.

"Act" means 1972 PA 230, MCL 125.1501 and known as the Stille-DeRossett-Hale single state construction code act.

"Building official" means the person who is appointed and employed by a governmental subdivision charged with the administration and enforcement of the state code or codes and who is registered in accordance with the requirements of 1986 P.A. 54, MCL 338.2301 to 338.2313. Where used in this code, the term code official means "building official".

History: 2002 AACS; 2008 MR 6, Aug. 1, 2008.

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**R 408.30558**

**Source:** 2003 AACS.

**R 408.30559**

**Source:** 2003 AACS.

**R 408.30560**

**Source:** 2003 AACS.

**R 408.30561 Accessibility. Rule 561. Sections 308.1, 308.6, 308.7, 308.8.2 and 308.8.3 of the code are amended as follows:**

308.1 Scope. A building, facility, or element that has a change in use group or occupancy load or alteration shall comply in accordance with the requirements of 1966 PA 1, MCL 125.1351 to 125.1356 and the Michigan building code, R 408.30401 to R 408.30547.

308.6 Alterations. A building, facility, or element that is altered shall comply with the applicable provisions in chapter 11 of the code and ICC/ANSI A117.1 listed in chapter 35, unless technically infeasible. When compliance with this section is technically infeasible, then the alteration shall provide access to the maximum extent technically feasible.

Exceptions:

1. The altered element or space is not required to be on an accessible route, unless required by section 308.7 of the code.
2. Accessible means of egress required by chapter 10 of the code are not required to be provided in existing buildings and facilities.

3. Buildings, structures, or improved areas which exist on or before the effective date of these rules and which are in compliance with the code at the time of the issuance of the certificate of occupancy unless the alteration specifically modifies an area covered by sections 308.6 to 308.8 of the code.

4. The alteration to type A individually owned dwelling units within a group R-2 occupancy shall meet the provision for a type B dwelling unit and shall comply with the applicable provisions in chapter 11 and ICC/ANSI A 117.1 listed in chapter 35.

308.7 Alterations affecting an area containing a primary function. Where an alteration affects the accessibility to a, or contains an area of, primary function, the route to the primary function area shall be accessible. The accessible route to the primary function area shall include toilet facilities or drinking fountains serving the area of primary function.

Exceptions:

1. This provision does not apply to alterations limited solely to windows, hardware, operating controls, electrical outlets, and signs.

2. This provision does not apply to alterations limited solely to mechanical systems, electrical systems, installation or alteration of fire protection systems, and abatement of hazardous materials.

3. This provision does not apply to alterations undertaken for the primary purpose of increasing the accessibility of an existing building, facility, or element.

308.8.2 Elevators. Altered elements of existing elevators shall comply with the Michigan elevator code, R 408.7001 to R 408.8695. Such elements shall also be altered in elevators programmed to respond to the same hall call control as the altered elevator.

308.8.3. Platform lifts. Platform (wheelchair) lifts complying with ICC/ANSI A 117.1 listed in chapter 35, and installed in accordance with the Michigan elevator code, R 408.7001 to R 408.8695 shall be permitted as a component of an accessible route.

History: 2002 AACS; 2008 MR 6, Aug. 1, 2008.

**R 408.30562 Submittal of documents.**

Rule 562. Section 106.1 of the code is amended as follows:

106.1 Submittal of documents. Construction documents, special inspection and structural observation programs, investigation and evaluation reports, and other data shall be submitted in 1 or more sets with each application for a permit. The construction documents shall be prepared by or under the direct supervision of a registered design professional when required by 1980 P.A. 299, MCL 339.101 to 339.2721. Where special conditions exist, the building official is authorized to require additional construction documents to be prepared by a registered design professional.

Exception: The building official is authorized to waive the submission of construction documents and other data not required to be prepared by a registered design professional if it is found that the nature of the work applied for is such that reviewing of construction documents is not necessary to obtain compliance with this code.

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History: 2002 AACCS; 2008 MR 6, Aug. 1, 2008.

**R 408.30563**

**Source:** 2003 AACCS.

**R 408.30564 Elevator control.**

Rule 564. Section 1301.6.14 of the code is amended as follows:

1301.6.14 Elevator control. Evaluate the passenger elevator equipment and controls that are available to the fire department to reach all occupied floors. Elevator recall controls shall be provided in accordance with the Michigan elevator code, R 408.7001 to R 408.8695. Under the categories and occupancies in table 1301.6.14, determine the appropriate value and enter that value into table 1301.7 under safety parameter 1301.6.14, elevator control, for fire safety, means of egress, and general safety. The values shall be zero for a single-story building.

History: 2002 AACCS; 2008 MR 6, Aug. 1, 2008.

**R 408.30565 Payment of fees.**

Rule 565. Section 108.1 of the code is amended as follows:

108.1 Payment of fees. The fees prescribed by the act shall be paid to the enforcing agency of the jurisdiction before a permit to begin work may be issued. In addition, an amendment to a permit necessitating an additional fee shall not be approved until the additional fee has been paid.

History: 2002 AACCS; 2008 MR 6, Aug. 1, 2008.

**R 408.30566 Smoke alarm locations.**

Rule 566. Sections 401.4 and 401.5 are added to the code as follows:

401.4. Smoke alarm locations in existing buildings constructed before November 6, 1974. Within each dwelling unit or sleeping unit, a single-station smoke alarm shall be installed in the following locations:

1. In each sleeping room or each area directly outside the sleeping room.
2. On each floor level including the basement level.

For sleeping units with split levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than 1 full story below the upper level.

401.5. Equipment Requirements. The required equipment for smoke alarms consist of the following:

1. Installation. Smoke alarm devices shall be listed and installed in accordance with the provisions of this code, the manufacturers installation requirements, and the provisions of NFPA 72 as listed in chapter 15.
2. Power Source. The equipment shall be operable by power from 1 of the following primary sources.
  - a. The building wiring provided that such wiring is served from a commercial source and is equipped with a battery backup. Wiring shall be permanent and without a disconnecting switch other than as required for overcurrent protection.
  - b. A non-rechargeable battery that is capable of operating the smoke alarm in the normal condition for a life of 5 years.
  - c. A rechargeable battery, with proper charging, able to power the alarm for a life of 5 years and shall be automatically recharged by an AC circuit of the commercial light and power source.
  - d. A household or commercial use alarm system with battery backup listed and approved in accordance with the household and commercial fire warning equipment provisions of NFPA 72, as adopted by reference in this rule.
3. Audible Alarm Notification. The activation of the alarm signal shall produce a sound that is audible in all occupiable dwelling areas.
4. Testing and Maintenance. The owner of a dwelling unit, in which required or optional fire detection or fire protection systems equipment is installed, shall be responsible for the proper operation, testing, and maintenance of the equipment in accordance with the manufacturer's instructions included with the equipment. The occupant of rental dwelling units shall be responsible for the periodic operational testing and periodic cleaning of the installed equipment within the rental unit in accordance with the testing instructions provided in the manufacturer's instructions for the equipment. If the system fails, breaks, or is out of service, it shall be repaired and functional within 30 days.

Exception: Smoke alarms and devices installed in buildings constructed before November 6, 1974 where an installation was approved by the appropriate enforcing agency under regulations in effect at the time of the installation shall be considered to comply with the provisions of the code.

History: 2002 AACCS; 2003 AACCS; 2005 AACCS; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30567**

**Source:** 2003 AACCS.

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**R 408.30568 Altered area use and occupancy classification change.**

Rule 568. Section 110.1 of the code is amended as follows:

110.1 Altered area use and occupancy classification change. An altered area of a building shall not be used or occupied, and a change in the existing occupancy classification of a building or portion thereof shall not be made until the building official has issued a certificate of occupancy in accordance with the act. The issuance of a certificate of occupancy shall not be construed as an approval of a violation of the provisions of this code or of the other ordinances of the jurisdiction.

History: 2002 AACCS; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30569 Minimum requirements.**

Rule 569. Section 1005.1 of the code is amended as follows:

1005.1. Minimum requirements. Accessibility provisions for new construction shall apply to additions. An addition that affects the accessibility to, or contains an area of, primary function shall comply with the requirements of section 308.

History: 2002 AACCS; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30570 Board of appeals.**

Rule 570. Sections 112.1 and 112.3 of the code are amended as follows:

112.1 Means of appeal. An interested person may appeal a decision of the enforcing agency to the board of appeals in accordance with the act. An application for appeal shall be based on a claim that the true intent of the code or the rules governing construction have been incorrectly interpreted, the provisions of the code do not apply, or an equal or better form of construction is proposed. The decision of a local board of appeals may be appealed to the construction code commission in accordance with the act and time frames.

Exception: Requests for barrier free design exception shall be in accordance with 1966 PA 1, MCL 125.1351 to 125.1356.

112.3 Qualification. The board of appeals shall consist of members who are qualified in accordance with the act.

History: 2002 AACCS; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30571 Violation penalties.**

Rule 571. Section 113.4 of the code is amended as follows:

113.4 Violation penalties. (1) It is unlawful for any person, firm, or corporation to violate a provision of this code or fail to conform with any of the requirements thereof, or erect, construct, alter, extend, repair, move, remove, demolish, or occupy any building, structure, or equipment regulated by this code, or cause work to be performed or done in conflict with or in violation of the approved construction documents or directive of the enforcing agency or a permit or certificate issued under this code.

(2) A violator shall be assessed a fine in accordance with the act.

History: 2002 AACCS; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30572 Stop work order.**

Rule 572. Section 114.2 of the code is amended as follows:

114.2 Issuance. Upon notice from the enforcing agency, work on any building or structure that has been done contrary to this code or in a dangerous and unsafe manner shall immediately cease. Notice shall be in accordance with the act. A person who is served with a stop work order, except for work that the person is directed to perform to remove a violation or unsafe condition, is subject to the penalty provisions prescribed in the act.

History: 2002 AACCS; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30573 Change of occupancy. Rule 573. Section 308.4 of the code is amended as follows:**

308.4. Change of occupancy. Unless technically infeasible, sections 308.5, 308.6, 308.7 and 308.8 of the code shall be applied in accordance with 1966 PA 1, MCL 125.1351 to 125.1356.

History: 2002 AACCS; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30574 Accessibility.**

Rule 574. Section 605.1 of the code is amended as follows:

605.1 General. A building, facility, or element that is accessible shall remain accessible in accordance with the requirements of 1966 PA 1, MCL 125.1351 to 125.1356 and the Michigan building code, R 408.30401 to R 408.30547.

History: 2002 AACCS; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30575 High-rise buildings.**

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Rule 575. Section 802.1 of the code is amended as follows:

802.1 High-rise buildings. Any building having 1 or more occupied floors located more than 55 feet (16 764 mm) above the lowest level of fire department vehicle access shall comply with the requirements of sections 802.1.1 and 802.1.2.

Exception: The provisions of sections 802.1.1 and 802.1.2 shall apply to buildings having occupied floor levels more than 75 feet above the lowest level of fire department vehicle access where the local unit of government has complied with the provisions of section 403.1 of the Michigan building code, exception 6.

History: 2002 AACS; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30576 Accessibility requirements.**

Rule 576. Sections 906.1 and 1104.1 of the code are amended as follows:

906.1 General. Accessibility in portions of buildings undergoing a change of occupancy classification shall comply with the provisions of section 308.4.

1104.1 Accessibility requirements. The provisions of section 308 shall apply to buildings and facilities designated as historic structures that undergo alterations, unless technically infeasible. Where compliance with the requirements for accessible routes, ramps, entrances, or toilet facilities would threaten or destroy the historic significance of the building or facility, as determined by the code official, the alternative requirements of sections 1104.1.1 to 1104.1.5 for that element shall be permitted.

History: 2002 AACS; 2003 AACS; 2008 MR 6, Eff. Aug. 1, 2008.

**R 408.30577 Applicability.**

Rule 577. Sections 706.1 and 806.1 are added to the code and 1301.2 of the code is amended as follows:

706.1 General. A building, facility, or element that is altered shall comply with section 308.

806.1 General. A building, facility, or element that is altered shall comply with section 308.

1301.2 Applicability. Structures existing before November 6, 1974, in which there is work involving additions, alterations, or changes of occupancy shall be made to conform to the requirements of this chapter or the provisions of chapters 4 through 12 of the code. The provisions in sections 1301.2.1 to 1301.2.5 shall apply to existing occupancies that will continue to be, or are proposed to be, in groups A, B, E, F, M, R, and S. The provisions of this rule shall not apply to buildings with occupancies in group H or I.

History: 2002 AACS; 2008 MR 6, Eff. Aug. 1, 2008.

**PART 6. MOBILE HOME CODE**

**R 408.30601**

Source: 1998-2000 AACS.

**R 408.30611**

Source: 1998-2000 AACS.

**R 408.30616**

Source: 1998-2000 AACS.

**R 408.30621**

Source: 1998-2000 AACS.

**R 408.30626**

Source: 1998-2000 AACS.

**R 408.30631**

Source: 1998-2000 AACS.

**R 408.30636**

Source: 1998-2000 AACS.

**PART 7. PLUMBING CODE**

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**AMENDMENTS AND ADDITIONS TO BASIC PLUMBING CODE**

- R 408.30701**  
Source: 2007 AACS.
- R 408.30709**  
Source: 1979 AC.
- R 408.30711**  
Source: 2001 AACS.
- R 408.30712**  
Source: 2001 AACS.
- R 408.30713**  
Source: 2001 AACS.
- R 408.30714**  
Source: 2001 AACS.
- R 408.30715**  
Source: 2003 AACS.
- R 408.30716**  
Source: 2007 AACS.
- R 408.30717**  
Source: 2007 AACS.
- R 408.30718**  
Source: 2007 AACS.
- R 408.30719**  
Source: 2007 AACS.
- R 408.30720**  
Source: 2007 AACS.
- R 408.30721**  
Source: 2003 AACS.
- R 408.30722**  
Source: 2003 AACS.
- R 408.30723**  
Source: 2007 AACS.
- R 408.30724**  
Source: 1998-2000 AACS.
- R 408.30725**  
Source: 1998-2000 AACS.
- R 408.30725a**  
Source: 1998-2000 AACS.
- R 408.30725b**  
Source: 1998-2000 AACS.

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- R 408.30725c**  
Source: 2007 AACCS.
- R 408.30726**  
Source: 1998-2000 AACCS.
- R 408.30728**  
Source: 2001 AACCS.
- R 408.30730**  
Source: 2007 AACCS.
- R 408.30731**  
Source: 2007 AACCS.
- R 408.30732**  
Source: 1997 AACCS.
- R 408.30733**  
Source: 1997 AACCS.
- R 408.30734**  
Source: 1998-2000 AACCS.
- R 408.30735**  
Source: 2007 AACCS.
- R 408.30736**  
Source: 1997 AACCS.
- R 408.30737**  
Source: 1998-2000 AACCS.
- R 408.30738**  
Source: 1997 AACCS.
- R 408.30738a**  
Source: 1998-2000 AACCS.
- R 408.30739**  
Source: 1997 AACCS.
- R 408.30740**  
Source: 1998-2000 AACCS.
- R 408.30740a**  
Source: 2003 AACCS.
- R 408.30740b**  
Source: 1998-2000 AACCS.
- R 408.30740c**  
Source: 2001 AACCS.
- R 408.30741**  
Source: 1997 AACCS.



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- R 408.30741a**  
Source: 1997 AACS.
- R 408.30741b**  
Source: 1997 AACS.
- R 408.30741c**  
Source: 2007 AACS.
- R 408.30742,**  
Source: 1997 AACS.
- R 408.30743**  
Source: 1997 AACS.
- R 408.30743a**  
Source: 1998-2000 AACS.
- R 408.30743b**  
Source: 1997 AACS.
- R 408.30743c**  
Source: 1998-2000 AACS.
- R 408.30744**  
Source: 1997 AACS.
- R 408.30744a**  
Source: 1998-2000 AACS.
- R 408.30744b**  
Source: 1998-2000 AACS.
- R 408.30744c**  
Source: 1998-2000 AACS.
- R 408.30744d**  
Source: 1998-2000 AACS.
- R 408.30744e**  
Source: 2003 AACS.
- R 408.30744f**  
Source: 1998-2000 AACS.
- R 408.30745**  
Source: 1997 AACS.
- R 408.30745a**  
Source: 1997 AACS.
- R 408.30745b**  
Source: 1997 AACS.
- R 408.30746**  
Source: 1998-2000 AACS.
- R 408.30746a**  
Source: 1997 AACS.

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- R 408.30746b**  
Source: 1997 AACS.
- R 408.30747**  
Source: 1997 AACS.
- R 408.30747a**  
Source: 1998-2000 AACS.
- R 408.30747b**  
Source: 1998-2000 AACS.
- R 408.30747c**  
Source: 1997 AACS.
- R 408.30748**  
Source: 1998-2000 AACS.
- R 408.30748a**  
Source: 1997 AACS.
- R 408.30748b**  
Source: 1997 AACS.
- R 408.30748c**  
Source: 1997 AACS.
- R 408.30749**  
Source: 2007 AACS.
- R 408.30749a**  
Source: 1998-2000 AACS.
- R 408.30750**  
Source: 1998-2000 AACS.
- R 408.30751**  
Source: 1997 AACS.
- R 408.30751a**  
Source: 1998-2000 AACS.
- R 408.30752**  
Source: 1997 AACS.
- R 408.30752a**  
Source: 1997 AACS.
- R 408.30753a**  
Source: 1998-2000 AACS.
- R 408.30754**  
Source: 1997 AACS.
- R 408.30754a**  
Source: 1997 AACS.
- R 408.30754b**  
Source: 2001 AACS.

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**R 408.30754c**  
Source: 1998-2000 AACS.

**R 408.30755**  
Source: 1997 AACS.

**R 408.30756**  
Source: 1998-2000 AACS.

**R 408.30756a**  
Source: 1998-2000 AACS.

**R 408.30757**  
Source: 2001 AACS.

**R 408.30758**  
Source: 2007 AACS.

**R 408.30758a**  
Source: 1997 AACS.

**R 408.30758b**  
Source: 1997 AACS.

**R 408.30758c**  
Source: 1997 AACS.

**R 408.30758d**  
Source: 1997 AACS.

**R 408.30759**  
Source: 1998-2000 AACS.

**R 408.30759a**  
Source: 2001 AACS.

**R 408.30759b**  
Source: 2001 AACS.

**R 408.30760**  
Source: 2001 AACS.

**R 408.30761**  
Source: 1998-2000 AACS.

**R 408.30761a**  
Source: 1998-2000 AACS.

**R 408.30761b**  
Source: 1998-2000 AACS.

**R 408.30761c**  
Source: 2001 AACS.

**R 408.30762**  
Source: 1998-2000 AACS.

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**R 408.30763**  
Source: 1998-2000 AACS.

**R 408.30763a**  
Source: 1998-2000 AACS.

**R 408.30763b**  
Source: 1998-2000 AACS.

**R 408.30763c**  
Source: 1998-2000 AACS.

**R 408.30764**  
Source: 1997 AACS.

**R 408.30765**  
Source: 1997 AACS.

**R 408.30765a**  
Source: 1997 AACS.

**R 408.30765b**  
Source: 1997 AACS.

**R 408.30765c**  
Source: 1997 AACS.

**R 408.30765d**  
Source: 1997 AACS.

**R 408.30765e**  
Source: 1997 AACS.

**R 408.30766**  
Source: 1997 AACS.

**R 408.30766a**  
Source: 1997 AACS.

**R 408.30766b**  
Source: 1997 AACS.

**R 408.30766c**  
Source: 1997 AACS.

**R 408.30766d**  
Source: 1997 AACS.

**R 408.30767**  
Source: 1997 AACS.

**R 408.30767a**  
Source: 1997 AACS.

**R 408.30768**  
Source: 1997 AACS.

**R 408.30768a**

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**Source:** 1997 AACS.

**R 408.30768b**

**Source:** 1997 AACS.

**R 408.30769**

**Source:** 1997 AACS.

**R 408.30769a**

**Source:** 1997 AACS.

**R 408.30769b**

**Source:** 1997 AACS.

**R 408.30769c**

**Source:** 1997 AACS.

**R 408.30770**

**Source:** 1997 AACS.

**R 408.30770a**

**Source:** 1997 AACS.

**R 408.30770b**

**Source:** 1997 AACS.

**R 408.30771**

**Source:** 1997 AACS.

**R 408.30771a**

**Source:** 1997 AACS.

**R 408.30771b**

**Source:** 1997 AACS.

**R 408.30771c**

**Source:** 1997 AACS.

**R 408.30771d**

**Source:** 1997 AACS.

**R 408.30771e**

**Source:** 1997 AACS.

**R 408.30772**

**Source:** 1997 AACS.

**R 408.30772a**

**Source:** 1997 AACS.

**R 408.30772b**

**Source:** 1997 AACS.

**R 408.30772c**

**Source:** 1997 AACS.

**R 408.30772d**

**Source:** 1997 AACS.

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**R 408.30772e**  
Source: 1997 AACS.

**R 408.30773**  
Source: 1997 AACS.

**R 408.30773a**  
Source: 1997 AACS.

**R 408.30773b**  
Source: 1997 AACS.

**R 408.30773c**  
Source: 1997 AACS.

**R 408.30773d**  
Source: 1997 AACS.

**R 408.30774**  
Source: 1997 AACS.

**R 408.30774a**  
Source: 1997 AACS.

**R 408.30774b**  
Source: 1997 AACS.

**R 408.30774c**  
Source: 1997 AACS.

**R 408.30774d**  
Source: 1997 AACS.

**R 408.30774e**  
Source: 1997 AACS.

**R 408.30774f**  
Source: 1997 AACS.

**R 408.30775**  
Source: 1997 AACS.

**R 408.30775a**  
Source: 1997 AACS.

**R 408.30775b**  
Source: 1997 AACS.

**R 408.30775c**  
Source: 1997 AACS.

**R 408.30775d**  
Source: 1997 AACS.

**R 408.30776**  
Source: 1997 AACS.

**R 408.30776a**  
Source: 1997 AACS.

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- R 408.30776b**  
Source: 1997 AACS.
- R 408.30776c**  
Source: 1997 AACS.
- R 408.30777**  
Source: 2007 AACS.
- R 408.30777a**  
Source: 1998-2000 AACS.
- R 408.30777b**  
Source: 1997 AACS.
- R 408.30777c**  
Source: 1998-2000 AACS.
- R 408.30777d**  
Source: 1998-2000 AACS.
- R 408.30777e**  
Source: 1998-2000 AACS.
- R 408.30778**  
Source: 1998-2000 AACS.
- R 408.30778a**  
Source: 1998-2000 AACS.
- R 408.30778b**  
Source: 1998-2000 AACS.
- R 408.30778c**  
Source: 1998-2000 AACS.
- R 408.30779**  
Source: 1998-2000 AACS.
- R 408.30779a**  
Source: 1998-2000 AACS.
- R 408.30779b**  
Source: 1998-2000 AACS.
- R 408.30780**  
Source: 1998-2000 AACS.
- R 408.30780a**  
Source: 1998-2000 AACS.
- R 408.30780b**  
Source: 1998-2000 AACS.
- R 408.30780c**  
Source: 1997 AACS.
- R 408.30781**  
Source: 1997 AACS.

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- R 408.30782**  
Source: 1997 AACS.
- R 408.30783**  
Source: 1997 AACS.
- R 408.30784**  
Source: 1997 AACS.
- R 408.30785**  
Source: 2007 AACS.
- R 408.30786**  
Source: 2003 AACS.
- R 408.30788**  
Source: 1998-2000 AACS.
- R 408.30788a**  
Source: 1997 AACS.
- R 408.30791**  
Source: 2007 AACS.
- R 408.30792**  
Source: 2003 AACS.
- R 408.30793**  
Source: 2001 AACS.
- R 408.30795**  
Source: 2001 AACS.
- R 408.30795a**  
Source: 2001 AACS.
- R 408.30796**  
Source: 2001 AACS.

**PART 8. ELECTRICAL CODE**

- R 408.30801**  
Source: 2007 AACS.
- R 408.30805**  
Source: 1979 AC.
- R 408.30806**  
Source: 2007 AACS.
- R 408.30808**  
Source: 2007 AACS.
- R 408.30809**  
Source: 2007 AACS.
- R 408.30810**  
Source: 2007 AACS.



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- R 408.30811**  
Source: 2004 AACCS.
- R 408.30812**  
Source: 2007 AACCS.
- R 408.30813**  
Source: 2004 AACCS.
- R 408.30814**  
Source: 2004 AACCS.
- R 408.30815**  
Source: 2004 AACCS.
- R 408.30816**  
Source: 2004 AACCS.
- R 408.30817**  
Source: 2004 AACCS.
- R 408.30818**  
Source: 2007 AACCS.
- R 408.30819**  
Source: 2007 AACCS.
- R 408.30820**  
Source: 2004 AACCS.
- R 408.30821**  
Source: 2007 AACCS.
- R 408.30822**  
Source: 2004 AACCS.
- R 408.30823**  
Source: 2007 AACCS.
- R 408.30824**  
Source: 2004 AACCS.
- R 408.30825**  
Source: 1998-2000 AACCS.
- R 408.30826**  
Source: 2007 AACCS.
- R 408.30827**  
Source: 2004 AACCS.
- R 408.30828**  
Source: 2007 AACCS.
- R 408.30829**  
Source: 2004 AACCS.

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**R 408.30830**  
Source: 1998-2000 AACS.

**R 408.30831**  
Source: 2004 AACS.

**R 408.30832**  
Source: 1997 AACS.

**R 408.30834**  
Source: 2007 AACS.

**R 408.30835**  
Source: 2007 AACS.

**R 408.30837**  
Source: 2004 AACS.

**R 408.30838**  
Source: 1997 AACS.

**R 408.30839**  
Source: 1998-2000 AACS.

**R 408.30843**  
Source: 2004 AACS.

**R 408.30865**  
Source: 1997 AACS.

**R 408.30866**  
Source: 2004 AACS.

**R 408.30867**  
Source: 2007 AACS.

**R 408.30868**  
Source: 2007 AACS.

**R 408.30869**  
Source: 2007 AACS.

**R 408.30870**  
Source: 1997 AACS.

**R 408.30871**  
Source: 1995 AACS.

**R 408.30872**  
Source: 1997 AACS.

**R 408.30873**  
Source: 2007 AACS.

**R 408.30880**  
Source: 1997 AACS.

**PART 9. MECHANICAL CODE**

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**R 408.30901**  
Source: 1997 AACS.

**PART 9A. MECHANICAL CODE**

**AMENDMENTS AND ADDITIONS TO BASIC MECHANICAL CODE**

**R 408.30901a**  
Source: 2007 AACS.

**R 408.30902a**  
Source: 2003 AACS.

**R 408.30903a**  
Source: 2001 AACS.

**R 408.30904a**  
Source: 2001 AACS.

**R 408.30905a**  
Source: 2007 AACS.

**R 408.30906a**  
Source: 2007 AACS.

**R 408.30907a**  
Source: 2007 AACS.

**R 408.30908a**  
Source: 2007 AACS.

**R 408.30909a**  
Source: 2007 AACS.

**R 408.30910a**  
Source: 2007 AACS.

**R 408.30912a**  
Source: 2007 AACS.

**R 408.30915a**  
Source: 2007 AACS.

**R 408.30916a**  
Source: 2001 AACS.

**R 408.30917a**  
Source: 1998-2000 AACS.

**R 408.30918a**  
Source: 2007 AACS.

**R 408.30919a**  
Source: 1997 AACS.

**R 408.30920a**  
Source: 1998-2000 AACS.

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- R 408.30921a**  
Source: 1997 AACS.
- R 408.30922a**  
Source: 1998-2000 AACS.
- R 408.30923a**  
Source: 2003 AACS.
- R 408.30924a**  
Source: 2001 AACS.
- R 408.30925a**  
Source: 1998-2000 AACS.
- R 408.30926a**  
Source: 1998-2000 AACS.
- R 408.30927a**  
Source: 2007 AACS.
- R 408.30928a**  
Source: 2001 AACS.
- R 408.30929a**  
Source: 1998-2000 AACS.
- R 408.30930a**  
Source: 1998-2000 AACS.
- R 408.30931a**  
Source: 1998-2000 AACS.
- R 408.30932a**  
Source: 1998-2000 AACS.
- R 408.30933a**  
Source: 1998-2000 AACS.
- R 408.30935a**  
Source: 2007 AACS.
- R 408.30936a**  
Source: 2007 AACS.
- R 408.30937a**  
Source: 1998-2000 AACS.
- R 408.30938a**  
Source: 1997 AACS.
- R 408.30940a**  
Source: 2001 AACS.
- R 408.30941a**  
Source: 1998-2000 AACS.
- R 408.30942a**

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**Source:** 1997 AACS.

**R 408.30943a**

**Source:** 1997 AACS.

**R 408.30944a**

**Source:** 1998-2000 AACS.

**R 408.30945a**

**Source:** 2007 AACS.

**R 408.30946a**

**Source:** 1998-2000 AACS.

**R 408.30948a**

**Source:** 1998-2000 AACS.

**R 408.30949a**

**Source:** 1998-2000 AACS.

**R 408.30951a**

**Source:** 1998-2000 AACS.

**R 408.30952a**

**Source:** 1997 AACS.

**R 408.30953a**

**Source:** 1998-2000 AACS.

**R 408.30954a**

**Source:** 1998-2000 AACS.

**R 408.30955a**

**Source:** 1997 AACS.

**R 408.30956a**

**Source:** 1998-2000 AACS.

**R 408.30958a**

**Source:** 1998-2000 AACS.

**R 408.30960a**

**Source:** 1997 AACS.

**R 408.30962a**

**Source:** 1998-2000 AACS.

**R 408.30963a**

**Source:** 1998-2000 AACS.

**R 408.30964a**

**Source:** 1997 AACS.

**R 408.30965a**

**Source:** 1998-2000 AACS.

**R 408.30966a**

**Source:** 1997 AACS.

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- R 408.30967a**  
Source: 1997 AACS.
- R 408.30968a**  
Source: 1997 AACS.
- R 408.30970a**  
Source: 1997 AACS.
- R 408.30971a**  
Source: 1997 AACS.
- R 408.30972a**  
Source: 1997 AACS.
- R 408.30975a**  
Source: 1998-2000 AACS.
- R 408.30977a**  
Source: 1997 AACS.
- R 408.30982a**  
Source: 1997 AACS.
- R 408.30983a**  
Source: 1998-2000 AACS.
- R 408.30984a**  
Source: 1998-2000 AACS.
- R 408.30987a**  
Source: 1998-2000 AACS.
- R 408.30989a**  
Source: 1997 AACS.
- R 408.30992a**  
Source: 1997 AACS.
- R 408.30995a**  
Source: 2007 AACS.
- R 408.30996**  
Source: 1997 AACS.
- R 408.30997**  
Source: 1997 AACS.
- R 408.30998**  
Source: 1997 AACS.

**PART 10. ENERGY CONSERVATION IN NEW BUILDING DESIGN**

- R 408.31001**  
Source: 1998-2000 AACS.
- R 408.31010**  
Source: 1998-2000 AACS.

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**R 408.31020**

Source: 1998-2000 AACS.

**R 408.31030**

Source: 1998-2000 AACS.

**R 408.31040**

Source: 1998-2000 AACS.

**R 408.31041**

Source: 1998-2000 AACS.

**R 408.31045**

Source: 1998-2000 AACS.

**R 408.31050**

Source: 1998-2000 AACS.

**R 408.31055**

Source: 1998-2000 AACS.

**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**

**BUREAU OF CONSTRUCTION CODES**

**GENERAL RULES**

**PART 10. MICHIGAN UNIFORM ENERGY CODE**

**R 408.31059 Applicable code.**

Rule 1059. Rules governing the energy efficiency for the design and construction of residential buildings shall be those contained in Chapter 11 of the 2003 International Residential Code. With the exceptions noted, Chapter 11 of the 2003 International Residential Code is adopted by reference in these rules. The Michigan uniform energy code is available for inspection or purchase at the Okemos office of the Michigan Department of Labor & Economic Growth, Bureau of Construction Codes and Fire Safety, 2501 Woodlake Circle, Okemos, Michigan 48864, at a cost as of the time of adoption of these rules of \$2.50.

History: 2008 MR 20, Eff. Oct. 24, 2008.

Editor's note: The rules were filed on December 16, 2004, with an effective date of March 28, 2005; however, a preliminary injunction was placed in effect on February 28, 2005 and dissolved on October 24, 2008, thereby delaying the effective date of the rules until October 24, 2008.

**R 408.31060 Scope.**

Rule 1060. Sections N1101.1, N1101.2, N1101.2.1 and table N1101.2 of the code are amended to read as follows:

N1101.1. Scope. This chapter sets forth the energy efficiency standards for detached 1-and 2-family dwellings and multiple-single family dwellings. One-and 2-family dwellings and multiple-single family dwellings shall be designed and constructed as regulated by the code for energy efficiency.

Exceptions:

1. A detached 1-and 2-family dwelling or portion thereof that has an intended maximum rate of energy usage less than 3.4 Btu/h per square foot of floor space for all purposes.
2. Portions of a detached 1-and 2-family dwelling that is not heated or mechanically cooled.
3. An existing detached 1-and 2-family dwelling, other than replacement fenestration as provided by section N1102.4.
4. An alteration of an existing detached 1-and 2-family dwelling.
5. A detached 1-and 2-family dwelling that is moved into or within a jurisdiction. A home manufactured pursuant to the Michigan premanufactured unit rules that is shipped for initial installation or initial assembly and installation on a building site shall not be considered a moved building.
6. Historical structures listed on the state or national historical register.

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N1101.2 Compliance. Compliance with the code shall be demonstrated by meeting the requirements of the applicable sections and tables of the code. Where applicable, provisions are based on the climate zones where the building is located. The climate zone assignments are as set forth in table N1101.2 for the county in which the building is constructed. The permit applicant shall determine the method used to achieve compliance with the provisions of the code at the time of application for permit.

N1101.2.1 Detached 1-and-2 family dwellings. Compliance shall be demonstrated by 1 of the following:

1. Meeting the requirements of the code.
2. Meeting the requirements of the International Energy Conservation Code for detached 1- and 2-family dwellings.
3. Meeting the design, construction and certification requirements under the US EPA Energy Star Homes Program ®.
4. Meeting the design and construction requirements in conformance with the national Home Energy Rating System (HERS) guidelines with a score of 83 or better. A certificate indicating the score prepared by an accredited agency shall be filed with the code official.

Table N1101.2  
Climate Zones by County

Zones		
1	2	3
Allegan	Alcona	Alger
Barry	Alpena	Baraga
Berrien	Antrim	Chippewa
Branch	Arenac	Delta
Calhoun	Bay	Dickinson
Cass	Benzie	Gogebic
Clinton	Charlevoix	Houghton
Eaton	Cheboygan	Iron
Genesee	Clare	Keweenaw
Gratiot	Crawford	Luce
Hillsdale	Emmet	Mackinac
Huron	Gladwin	Marquette
Ingham	Grand Traverse	Menominee
Ionia	Iosco	Ontonagon
Jackson	Isabella	Schoolcraft
Kalamazoo	Kalkaska	
Kent	Lake	
Lapeer	Leelanau	
Lenawee	Manistee	
Livingston	Mason	
Macomb	Mecosta	
Monroe	Midland	
Montcalm	Missaukee	
Muskegon	Montmorency	
Oakland	Newaygo	
Ottawa	Oceana	
Saginaw	Ogemaw	
Sanilac	Osceola	
Shiawassee	Oscoda	
St. Clair	Otsego	
St. Joseph	Presque Isle	
Tuscola	Roscommon	
Van Buren	Wexford	
Washtenaw		
Wayne		

History: 2008 MR 20, Eff. Oct. 24, 2008.



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Editor's note: The rules were filed on December 16, 2004, with an effective date of March 28, 2005; however, a preliminary injunction was placed in effect on February 28, 2005 and dissolved on October 24, 2008, thereby delaying the effective date of the rules until October 24, 2008.

**R 408.31061 Definitions.**

Rule 1061. Section N1101.4 is added to the code to read as follows:

N1101.4 Definitions. Definitions shall have the meanings as defined in the code.

History: 1998-2000 AACCS; 2008 MR 20, Eff. Oct. 24, 2008.

Editor's note: The rules were filed on December 16, 2004, with an effective date of March 28, 2005; however, a preliminary injunction was placed in effect on February 28, 2005 and dissolved on October 24, 2008, thereby delaying the effective date of the rules until October 24, 2008.

**R 408.31062 Fenestration**

Rule 1062. Section N1101.3.2 of the code is amended to read as follows:

N1101.3.2. Fenestration. The *U*-factor of fenestration shall be determined in accordance with NFRC 100 by an accredited, independent laboratory, and labeled and certified by the manufacturer. The solar heat gain coefficient (SHGC) of fenestration shall be determined in accordance with NFRC 200 by an accredited, independent laboratory, and labeled and certified by the manufacturer.

Exception: Computer simulations by independent NFRC certified laboratories or approval under section 21 of 1972 PA 230, MCL 125.1521 are considered in compliance with this section.

N1101.3.2.3 R-values of fenestration products. Windows, doors and skylights shall be rated for thermal resistance based on the entire fenestration unit. The R-values of all fenestration products in a building shall be the reciprocal of the *U*-factor and meet the requirements set forth in table N1102.1. The *U*-factor may be converted to R values by using the inverse of the *U*-factor ( $R \text{ value} = 1/U\text{-factor}$ ).

History: 1998-2000 AACCS; 2008 MR 20, Eff. Oct. 24, 2008.

Editor's note: The rules were filed on December 16, 2004, with an effective date of March 28, 2005; however, a preliminary injunction was placed in effect on February 28, 2005 and dissolved on October 24, 2008, thereby delaying the effective date of the rules until October 24, 2008.

**R 408.31063 Thermal performance criteria.**

Rule 1063. Thermal performance criteria. Tables N1102.1, N1102.1.1.1(1), and N1102.1.1.2 of the code are amended to read as follows:

TABLE N1102.1

SIMPLIFIED PRESCRIPTIVE BUILDING ENVELOPE THERMAL COMPONENT CRITERIA MINIMUM REQUIRED THERMAL PERFORMANCE (*U*-FACTOR AND *R*-VALUE)

Exterior Enclosure		Zones		
		1	2	3
Wall Assemblies		R-21	R-21	R-21
Fenestration/Openings (area weighted average of the total area of fenestration units) <sup>1</sup>		U =0.35 (R= 2.85)		
Roof/Ceiling Assemblies <sup>2</sup>		R-49	R-49	R-49
Floors over unconditioned spaces		R -21	R-21	R-21
Slab on grade construction <sup>3</sup>		R-11, 4 ft.	R-13, 4 ft.	<b>R-18, 4 ft.</b>
Crawl space walls <sup>4</sup>		R-20	R-20	R-20
<b>Basement walls</b>	Continuous Insulation	R-10	R-10	<b>R-15</b>
	Cavity Insulation	R-11	R-11	<b>R-19</b>

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<sup>1</sup> Fenestration units are required to meet this standard for the entire unit.

<sup>2</sup> Skylight U (1/R) factors are required to meet the fenestration requirements set forth in this table for fenestration/openings. Skylights are limited to 10% of the gross roof/ceiling area.

<sup>3</sup> See section N1102.1.6 for additional installation criteria.

<sup>4</sup> See section N1102.1.7 for additional installation criteria.

TABLE N1102.1.1.1(1)

**MASS WALL PRESCRIPTIVE BUILDING ENVELOPE REQUIREMENTS**

<b>BUILDING LOCATION</b>		<b>MASS WALL ASSEMBLY <i>R</i>-VALUE <sup>a</sup> (hr·ft<sup>2</sup>·°F) / Btu</b>	
Climate Zone	HDD	Exterior or integral insulation	Other mass walls
1	6,000-6,999	R-15.5	R-18.4
2	7,000-8,499	R-15.5	R-18.4
3	8,500-12,999	R-18.4	R-18.4

For SI: 1 (hr · ft<sup>2</sup> · °F)/Btu = 0.176 m<sup>2</sup> · K/W.

TABLE N1102.1.1.2

**STEEL-FRAME WALL MINIMUM PERFORMANCE REQUIREMENTS (*R*-VALUE)**

<b>CLIMATE ZONES</b>	<b>HDD</b>	<b>EQUIVALENT STEEL-FRAME WALL CAVITY AND SHEATHING <i>R</i>-VALUE <sup>a</sup> (hr ft<sup>2</sup> °F) / Btu</b>
1	6,000-6,999	R-13+R-10, R-19+R-9, R-25+R-8
2	7,000-8,499	R-13+R-10, R-19+R-9, R-25+R-8
3	8,500-12,999	R-13+R-10, R-19+R-9, R-25+R-8

For SI: 1 (hr · ft<sup>2</sup> · °F)/Btu = 0.176 m<sup>2</sup> · K/W.

a. The cavity insulation *R*-value requirement is listed first, followed by the sheathing *R*-value requirement.

History: 1998-2000 AACCS; 2008 MR 20, Eff. Oct. 24, 2008.

Editor's note: The rules were filed on December 16, 2004, with an effective date of March 28, 2005; however, a preliminary injunction was placed in effect on February 28, 2005 and dissolved on October 24, 2008, thereby delaying the effective date of the rules until October 24, 2008.

**R 408.30164 Replacement fenestration.**

Rule 1064. Section N1102.4 of the code is amended to read as follows:

N1102.4. Replacement fenestration. Where some or all of an existing fenestration unit is replaced with an entirely new replacement fenestration product, including frame, sash and glazed portion, in an existing building, the replacement fenestration shall have a U-factor that does not exceed the maximum fenestration U-factor and an SHGC that does not exceed the maximum fenestration SHGC in table N1102.5. Replacement skylights and roof windows shall be permitted to have a maximum U-factor of 0.60. The replacement fenestration products shall also satisfy the air leakage requirements of section N1101.3.2.2.

History: 1998-2000 AACCS; 2008 MR 20, Eff. Oct. 24, 2008.

Editor's note: The rules were filed on December 16, 2004, with an effective date of March 28, 2005; however, a preliminary injunction was placed in effect on February 28, 2005 and dissolved on October 24, 2008, thereby delaying the effective date of the rules until October 24, 2008.

**R 408.31065 Prescriptive path for additions and window replacements.**

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Rule 1065. Section N1102.5 and table N1102.5 are added to the code to read as follows:

N1102.5 Prescriptive path for additions and window replacements. As an alternative to demonstrating compliance with section N1105 or N1102, additions with a conditioned floor area less than 500 square feet (46.5m<sup>2</sup>) to existing single-family residential buildings and structures shall meet the prescriptive envelope component criteria in table 1102.5 for the designated heating degree days (HDD) applicable to the location. The *U*-factor of each individual fenestration product (windows, doors and skylights) shall be used to calculate an area-weighted average fenestration product *U*-factor for the addition, which shall not exceed the applicable listed values in table N1102.5. For additions, other than sunroom additions, the total area of fenestration products shall not exceed 40 percent of the gross wall and roof area of the addition. The *R*-values for opaque thermal envelope components shall be equal to or greater than the applicable listed values in table N1102.5. Replacement fenestration products (where some or all of an existing fenestration unit is replaced with an entire new replacement unit, including the frame, sash and glazing) shall meet the prescriptive fenestration *U*-factor criteria in table N1102.5 for the designated HDD applicable to the location.

Conditioned sunroom additions shall maintain thermal isolation; shall not be used as kitchens or sleeping rooms; and shall be served by a separate heating or cooling system, or be thermostatically controlled as a separate zone of the existing system.

Exception: Replacement skylights shall have a maximum *U*-factor of 0.60 when installed in any location above 1,999 HDD.

TABLE N1102.5  
**PREScriptive ENVELOPE COMPONENT CRITERIA**  
**ADDITIONS TO AND REPLACEMENT WINDOWS FOR EXISTING**  
**DETACHED 1- AND 2-FAMILY DWELLINGS**

HEATING DEGREE DAYS	MAXIMUM	MINIMUM					
	Fenestration <i>U</i> -factor <sup>c</sup>	Ceiling <i>R</i> -value <sup>a,c</sup>	Wall <i>R</i> -value <sup>c</sup>	Floor <i>R</i> -value	Basement wall <i>R</i> -value <sup>b</sup>	Slab perimeter <i>R</i> -value and depth <sup>c</sup>	Crawl space wall <i>R</i> -value <sup>d</sup>
6,000 - 8,499	0.35	R-49	R-21	R-21	R-11	R-13, 4 ft.	R-20
8,500 - 12,999	0.35	R-49	R-21	R-21	R-19	R-18, 4 ft.	R-20

For SI: 1 foot = 304.8 mm.

a. "Ceiling *R*-value" shall be required for flat or inclined (cathedral) ceilings. Floors over outside air shall meet "Ceiling *R*-value" requirements.

b. Basement wall insulation shall be installed in accordance with section 502.2.1.6.

c. Slab perimeter insulation shall be installed in accordance with section 502.2.1.4. An additional R-2 shall be added to "Slab perimeter *R*-value" in the table if the slab is heated.

d. "Crawl space wall *R*-value" shall apply to unventilated crawl spaces only. Crawl space insulation shall be installed in accordance with section 502.2.1.5.

e. Sunroom additions shall be required to have a maximum fenestration *U*-factor of 0.50 in locations with 2,000 - 12,999 HDD. In locations with 0-5,999 HDD, the minimum ceiling *R*-value shall be R-19 and the minimum wall *R*-value shall be R-13. In locations with 6,000 - 12,999 HDD, the minimum ceiling *R*-value shall be R-24 and the minimum wall *R*-value shall be R-13.

History: 1998-2000 AACCS; 2008 MR 20, Eff. Oct. 24, 2008.

Editor's note: The rules were filed on December 16, 2004, with an effective date of March 28, 2005; however, a preliminary injunction was placed in effect on February 28, 2005 and dissolved on October 24, 2008, thereby delaying the effective date of the rules until October 24, 2008.

**R 408.31066 Building design**

Rule 1066. Sections N1105.1, N1105.1.1, N1105.1.2 and N1105.1.3 are added to the code to read as follows:

N1105.1 Building design. Residential design by systems analysis. A building designed in accordance with this section is considered in compliance with the code if the calculated heating energy consumption is not more than that of a standard

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design building envelope designed in accordance with the code. The use of this compliance method is at the election of the permit applicant. For a proposed alternate building design to be considered similar to the standard design, the proposed alternate building design shall be the same as the standard design for all of the following:

1. Floor area.
2. Thermal envelope area.
3. Exterior design conditions.
4. Occupancy.
5. Climate data.
6. Usage operational schedule.

N1105.1.1 Standard building design criteria. The standard building design criteria shall include the following:

1. Gas and oil-fired heating source efficiency rating of 78% AFUE.
2. An air changes per hour (ACH) rate of 0.55 for the purpose of calculation only.
3. For reduced ACH levels, documentation of a post-construction blower-door test shall be provided to the code official.
4. A simplified heating degree day (HDD) approach for the appropriate zone, as follows:
  - a. Zone 1 6900 HDD.
  - b. Zone 2 7800 HDD.
  - c. Zone 3 9300 HDD.

Exception: The typical meteorological year (TMY), or its ersatz equivalent, from the national oceanic and atmospheric administration (NOAA) or an approved equivalent, for the closest available location, may be used for the proposed alternative design.

N1105.1.2 Analysis method. The analysis methodology or calculation tool used for comparison of the heating energy usage of the standard and the proposed alternative building design shall be the same.

N1105.1.3 Analysis Report. A heating energy analysis comparison shall be submitted to the code official including all of the following information:

- a. The design criteria used to develop the standard design and the proposed alternative design.
- b. A detailed technical comparison of the 2 building and system designs.
- c. The data used in, and resulting from, the comparative analysis to verify that both the analysis and the design meet the criteria of this section and sections N1105.1 to N1105.2.

History: 1998-2000 AACCS; 2008 MR 20, Eff. Oct. 24, 2008.

Editor's note: The rules were filed on December 16, 2004, with an effective date of March 28, 2005; however, a preliminary injunction was placed in effect on February 28, 2005 and dissolved on October 24, 2008, thereby delaying the effective date of the rules until October 24, 2008.

**R 408.31069 Renewable energy source analysis.**

Rule 1069. Section N1106.1 is added to the code to read as follows:

N1106.1 Renewable energy source analysis. A building designed to use a renewable energy source for all or part of its energy source shall be designed and constructed in compliance with the requirements of this section.

Exception: The renewable energy may be excluded from the total heating energy consumption allowed for the building.

- a. The renewable energy shall be derived from a specific collection, storage, or distribution system.
- b. The heating energy derived from renewable sources and the reduction in conventional heating energy requirements shall be separately identified from the overall building energy use.
- c. Supporting documentation on the basis of the performance estimates for the renewable energy sources shall be submitted to the code official.

History: 2008 MR 20, Eff. Oct. 24, 2008.

Editor's note: The rules were filed on December 16, 2004, with an effective date of March 28, 2005; however, a preliminary injunction was placed in effect on February 28, 2005 and dissolved on October 24, 2008, thereby delaying the effective date of the rules until October 24, 2008.

**R 408.31070 Heating energy analysis comparison report.**

Rule 1070. Sections N1107.1, N1107.1.1, N1107.2, abbreviated report form N1107.1, and table N1107.1 are added to the code to read as follows:

N1107.1 Heating energy analysis comparison report. A heating energy comparison report shall be submitted to the code official to include both of the following information:

1. A basic description of the proposed alternate building design and any exceptions to the standard design criteria.

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2. Abbreviated report form N1107.1, comparing the alternative house design with a standard design house complying with the provisions of this chapter through the systems analysis method.

Abbreviated Report Form N1107.1

## Heating Energy Analysis Comparison Report

Builder=s Name:  
Project Address:  
City/Township/County:

PROPOSED ALTERNATIVE HOUSE		STANDARD DESIGN HOUSE	
ROOF/CEILING (INC. SKYLIGHTS)	SUBTOTAL S	ROOF/CEILING (INC. SKYLIGHTS)	SUBTOTAL LS
A <sub>1</sub> /R <sub>1</sub> = A <sub>1</sub> /R <sub>1</sub> A <sub>2</sub> /R <sub>2</sub> = A <sub>2</sub> /R <sub>2</sub> A <sub>3</sub> /R <sub>3</sub> = A <sub>3</sub> /R <sub>3</sub> <div>A<sub>1</sub> /R<sub>1</sub> + A<sub>2</sub> /R<sub>2</sub> + A<sub>3</sub> /R<sub>3</sub> = Total Roof/Ceiling Area</div>	<div>Line 1</div>	<div>Total Roof/Ceiling Area zones)</div> x 0.0204 = (all	<div>Line A</div>
GROSS WALL		GROSS WALL	
Opaque Wall (Does not include band joist, windows, doors, etc.)  A <sub>1</sub> /R <sub>1</sub> = A <sub>1</sub> /R <sub>1</sub> A <sub>2</sub> /R <sub>2</sub> = A <sub>2</sub> /R <sub>2</sub> A <sub>1</sub> /R <sub>1</sub> + A <sub>2</sub> /R <sub>2</sub> =	<div>Line 2</div>		
Band Joist  A     /R     = A /R     =	<div>Line 3</div>		
Fenestration and Doors, Windows  A <sub>1</sub> /R <sub>1</sub> = A <sub>1</sub> /R <sub>1</sub> A <sub>2</sub> /R <sub>2</sub> = A <sub>2</sub> /R <sub>2</sub> A <sub>3</sub> /R <sub>3</sub> = A <sub>3</sub> /R <sub>3</sub> A <sub>1</sub> /R <sub>1</sub> + A <sub>2</sub> /R <sub>2</sub> + A <sub>3</sub> /R <sub>3</sub> =	<div>Line 4</div>		

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Doors  $A_1 \quad \quad \quad /R_1 \quad \quad \quad = A_1 /R_1 \quad \quad \quad$  $A_2 \quad \quad \quad /R_2 \quad \quad \quad = A_2 /R_2 \quad \quad \quad$ $A_1 /R_1 + A_2 /R_2 =$	<hr style="width: 50%; margin: 0 auto;"/> Line 5	
Other  $A \quad \quad \quad /R \quad \quad \quad = A/R \quad \quad \quad =$  <hr style="width: 50%; margin: 0 auto;"/> Total Gross Wall Area	<hr style="width: 50%; margin: 0 auto;"/> Line 6	
GROSS WALL SUBTOTAL A/R (Lines: 2+3+4+5+6)	<hr style="width: 50%; margin: 0 auto;"/> Line 7	<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="width: 60%;"> <hr style="width: 80%; margin: 0 auto;"/>           Total Gross Wall Area (zones)         </div> <div style="width: 35%; text-align: right;">           x      0.093 =            (all         </div> </div> <div style="text-align: right; margin-top: 5px;"> <hr style="width: 50%; margin: 0 auto;"/>           Line B         </div>

**Abbreviated Report Form N1107.1**  
Heating Energy Analysis Comparison Report  
**Continued**

FOUNDATION/FLOOR	SUBTOTAL S	FOUNDATION/FLOOR	SUBTOTAL LS
Floors Over Unconditioned Spaces  $A \quad \quad \quad /R \quad \quad \quad = A/R \quad \quad \quad =$	<hr style="width: 50%; margin: 0 auto;"/> Line 8	Floors Over Unconditioned Spaces  <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="width: 60%;"> <hr style="width: 80%; margin: 0 auto;"/>           Total Floor Area (zones)         </div> <div style="width: 35%; text-align: right;">           x      0.0476 =            (all         </div> </div> <div style="text-align: right; margin-top: 5px;"> <hr style="width: 50%; margin: 0 auto;"/>           Line C         </div>	
Slab on Grade Floors (Area = Perimeter x 2')  $A \quad \quad \quad /R \quad \quad \quad = A/R \quad \quad \quad =$	<hr style="width: 50%; margin: 0 auto;"/> Line 9	Slab on Grade (Unheated)  $Z_1 0.0909$  <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="width: 60%;"> <hr style="width: 80%; margin: 0 auto;"/>           =            Total Slab Edge Area  <math>Z_3 0.050</math> </div> <div style="width: 35%; text-align: right;">           x      <math>Z_2 0.0769</math> </div> </div> <div style="text-align: right; margin-top: 5px;"> <hr style="width: 50%; margin: 0 auto;"/>           Line D         </div> Slab on Grade (Heated) $Z_1 0.0769$  <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="width: 60%;"> <hr style="width: 80%; margin: 0 auto;"/>           =            Total Slab Edge Area  <math>Z_3 0.050</math> </div> <div style="width: 35%; text-align: right;">           x      <math>Z_2 0.0667</math> </div> </div> <div style="text-align: right; margin-top: 5px;"> <hr style="width: 50%; margin: 0 auto;"/>           Line E         </div>	
Crawl Space Walls (Area: Top foundation wall to average finished grade)		Crawl Space     <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="width: 60%;"> <hr style="width: 80%; margin: 0 auto;"/> </div> <div style="width: 35%; text-align: right;">           x      0.050 =         </div> </div>	

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$A \quad \text{_____} / R \quad \text{_____} = A/R \quad \text{_____} =$ <div style="text-align: right;">Line 10</div>	Total Crawl Space Wall Area (all zones) <div style="text-align: right;">Line F</div>
<p>Basement Walls (Area: Top foundation wall to average finished grade)</p> $A_1 \quad \text{_____} / R_1 \quad \text{_____} = A_1 / R_1 \quad \text{_____}$ $A_2 \quad \text{_____} / R_2 \quad \text{_____} = A_2 / R_2 \quad \text{_____}$ $A_1 / R_1 + A_2 / R_2 =$ <div style="text-align: right;">Line 11</div> <p>Basement Windows</p> $A \quad \text{_____} / R \quad \text{_____} = A/R \quad \text{_____} =$ <div style="text-align: right;">Line 12</div> <p>Total Gross Basement Wall Area</p>	<p>Basement Walls</p> $Z_1 0.090$ $\times$ $Z_2 0.090 =$ Total Gross Basement Wall Area $Z_3 0.055$ <div style="text-align: right;">Line G</div>
<p>FOUNDATION/FLOOR SUBTOTAL A/R (Lines: 8+9+10+11+12)</p> <div style="text-align: right;">Line 13</div>	<p>FOUNDATION/FLOOR SUBTOTAL A/R (Lines: C+D+E+F+G)</p> <div style="text-align: right;">Line H</div>
<p>PROPOSED ALTERNATIVE HOUSE SUB-TOTAL A/R (Lines: 1+7+13)</p> <div style="text-align: right;">Line 14</div>	<p>STANDARD DESIGN HOUSE SUB-TOTAL A/R (Lines: A+B+H)</p> <div style="text-align: right;">Line I</div>
<p>HEATING EQUIPMENT EFFICIENCY (If the same as Standard House, go to line 16 or 17)</p> <p>(Oil or Gas Fired) AFUE: _____%</p> <p>Line 14: _____ = Adjusted A/R = AFUE: _____ 0.</p> <div style="text-align: right;">Line 15</div>	<p>HEATING EQUIPMENT EFFICIENCY</p> <p>(Oil or Gas Fired) AFUE: 78%</p> <p>Line I: _____ = Adjusted A/R = AFUE: 0.78</p> <div style="text-align: right;">Line J</div>
<p>AIR LEAKAGE RATE (If the same as Standard House, go to line 17)</p> <p>_____ ACH x _____ ft<sup>3</sup> x 0.018 = Air Changes per Hour                      Volume of House</p> <div style="text-align: right;">Line 16</div>	<p>AIR LEAKAGE RATE</p> <p>0.55 ACH x _____ ft<sup>3</sup> x 0.018 = Volume of House</p> <div style="text-align: right;">Line K</div>
<p>PROPOSED ALTERNATIVE HOUSE TOTAL (Lines: 15+16)</p> <div style="text-align: right;">Line 17</div> <p>Equal to or less than line L to pass</p>	<p>STANDARD DESIGN LIMIT TOTAL (Lines: J+K)</p> <div style="text-align: right;">Line L</div>

N1107.1.1 Alternative design constants. The alternative design constants of table N1107.1 may be used for the specific site weather data (heating degree days) for the proposed alternative design.

Table N1107.1  
Alternative Standard Design Constants (1/r) for Systems Analysis Approach

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Heating Degree Days	6000 – 6499	6500 – 6999	7000 – 7499	7500 – 7999	8000 – 8499	8500 – 8999	9000 +
Roof/Ceiling	0.0204	0.0204	0.0204	0.0204	0.0204	0.0204	0.0204
Gross Wall	0.093	0.093	0.093	0.093	0.093	0.093	0.093
Foundation/floor Floor over unconditioned space	0.0476	0.0476	0.0476	0.0476	0.0476	0.0476	0.0476
Slab on grade Unheated slab	0.0909	0.0909	0.0769	0.0769	0.0769	0.050	0.050
Heated Slab	0.0769	0.0769	0.0667	0.0677	0.0667	0.050	0.050
Crawl space	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Basement wall	0.0909	0.0909	0.0909	0.0909	0.0909	0.0555	0.0555

N1107.2 Compliance. The proposed alternative design shall be determined to be in compliance when the proposed alternative house A/R total (line 14 or line 17 of abbreviated report form N1107.1) is less than or equal to the standard design house (line I or line L of abbreviated report form N1107.1).

History: 1998-2000 AACCS; 2003 AACCS; 2008 MR 20, Eff. Oct. 24, 2008.

Editor's note: The rules were filed on December 16, 2004, with an effective date of March 28, 2005; however, a preliminary injunction was placed in effect on February 28, 2005 and dissolved on October 24, 2008, thereby delaying the effective date of the rules until October 24, 2008.

**R 408.31071 Rescinded.**

History: 1998-2000 AACCS; 2008 MR 20, Eff. Oct. 24, 2008.

Editor's note: The rules were filed on December 16, 2004, with an effective date of March 28, 2005; however, a preliminary injunction was placed in effect on February 28, 2005 and dissolved on October 24, 2008, thereby delaying the effective date of the rules until October 24, 2008.

**R 408.31072 Rescinded.**

History: 1998-2000 AACCS; 2008 MR 20, Eff. Oct. 24, 2008.

Editor's note: The rules were filed on December 16, 2004, with an effective date of March 28, 2005; however, a preliminary injunction was placed in effect on February 28, 2005 and dissolved on October 24, 2008, thereby delaying the effective date of the rules until October 24, 2008.

**R 408.31073 Rescinded.**

History: 1998-2000 AACCS; 2008 MR 20, Eff. Oct. 24, 2008.

Editor's note: The rules were filed on December 16, 2004, with an effective date of March 28, 2005; however, a preliminary injunction was placed in effect on February 28, 2005 and dissolved on October 24, 2008, thereby delaying the effective date of the rules until October 24, 2008.

**R 408.31074 Rescinded.**

History: 1998-2000 AACCS; 2008 MR 20, Eff. Oct. 24, 2008.

Editor's note: The rules were filed on December 16, 2004, with an effective date of March 28, 2005; however, a preliminary injunction was placed in effect on February 28, 2005 and dissolved on October 24, 2008, thereby delaying the effective date of the rules until October 24, 2008.

**R 408.31075 Rescinded.**

History: 1998-2000 AACCS; 2008 MR 20, Eff. Oct. 24, 2008.

Editor's note: The rules were filed on December 16, 2004, with an effective date of March 28, 2005; however, a preliminary injunction was placed in effect on February 28, 2005 and dissolved on October 24, 2008, thereby delaying the effective date of the rules until October 24, 2008.



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the effective date of the rules until October 24, 2008.

**R 408.31076 Rescinded.**

History: 1998-2000 AACCS; 2008 MR 20, Eff. Oct. 24, 2008.

Editor's note: The rules were filed on December 16, 2004, with an effective date of March 28, 2005; however, a preliminary injunction was placed in effect on February 28, 2005 and dissolved on October 24, 2008, thereby delaying the effective date of the rules until October 24, 2008.

**R 408.31077 Rescinded.**

History: 1998-2000 AACCS; 2008 MR 20, Eff. Oct. 24, 2008.

Editor's note: The rules were filed on December 16, 2004, with an effective date of March 28, 2005; however, a preliminary injunction was placed in effect on February 28, 2005 and dissolved on October 24, 2008, thereby delaying the effective date of the rules until October 24, 2008.

**R 408.31078 Rescinded.**

History: 1998-2000 AACCS; 2008 MR 20, Eff. Oct. 24, 2008.

Editor's note: The rules were filed on December 16, 2004, with an effective date of March 28, 2005; however, a preliminary injunction was placed in effect on February 28, 2005 and dissolved on October 24, 2008, thereby delaying the effective date of the rules until October 24, 2008.

**R 408.31079 Rescinded.**

History: 1998-2000 AACCS; 2008 MR 20, Eff. Oct. 24, 2008.

Editor's note: The rules were filed on December 16, 2004, with an effective date of March 28, 2005; however, a preliminary injunction was placed in effect on February 28, 2005 and dissolved on October 24, 2008, thereby delaying the effective date of the rules until October 24, 2008.

**R 408.31080 Rescinded.**

History: 1998-2000 AACCS; 2008 MR 20, Eff. Oct. 24, 2008.

Editor's note: The rules were filed on December 16, 2004, with an effective date of March 28, 2005; however, a preliminary injunction was placed in effect on February 28, 2005 and dissolved on October 24, 2008, thereby delaying the effective date of the rules until October 24, 2008.

**R 408.31081 Rescinded.**

History: 1998-2000 AACCS; 2008 MR 20, Eff. Oct. 24, 2008.

Editor's note: The rules were filed on December 16, 2004, with an effective date of March 28, 2005; however, a preliminary injunction was placed in effect on February 28, 2005 and dissolved on October 24, 2008, thereby delaying the effective date of the rules until October 24, 2008.

**R 408.31082 Rescinded.**

History: 1998-2000 AACCS; 2008 MR 20, Eff. Oct. 24, 2008.

Editor's note: The rules were filed on December 16, 2004, with an effective date of March 28, 2005; however, a preliminary injunction was placed in effect on February 28, 2005 and dissolved on October 24, 2008, thereby delaying the effective date of the rules until October 24, 2008.

**R 408.31083 Rescinded.**

History: 1998-2000 AACCS; 2008 MR 20, Eff. Oct. 24, 2008.

Editor's note: The rules were filed on December 16, 2004, with an effective date of March 28, 2005; however, a preliminary injunction was placed in effect on February 28, 2005 and dissolved on October 24, 2008, thereby delaying the effective date of the rules until October 24, 2008.

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the effective date of the rules until October 24, 2008.

**R 408.31084 Rescinded.**

History: 1998-2000 AACS; 2008 MR 20, Eff. Oct. 24, 2008.

Editor's note: The rules were filed on December 16, 2004, with an effective date of March 28, 2005; however, a preliminary injunction was placed in effect on February 28, 2005 and dissolved on October 24, 2008, thereby delaying the effective date of the rules until October 24, 2008.

**R 408.31085 Rescinded..**

History: 1998-2000 AACS; 2008 MR 20, Eff. Oct. 24, 2008.

Editor's note: The rules were filed on December 16, 2004, with an effective date of March 28, 2005; however, a preliminary injunction was placed in effect on February 28, 2005 and dissolved on October 24, 2008, thereby delaying the effective date of the rules until October 24, 2008.

**R 408.31086 Rescinded.**

History: 1998-2000 AACS; 2008 MR 20, Eff. Oct. 24, 2008.

Editor's note: The rules were filed on December 16, 2004, with an effective date of March 28, 2005; however, a preliminary injunction was placed in effect on February 28, 2005 and dissolved on October 24, 2008, thereby delaying the effective date of the rules until October 24, 2008.

**R 408.31087**

Source: 2003 AACS.

**R 408.31088**

Source: 2003 AACS.

**R 408.31089**

Source: 2003 AACS.

**R 408.31090**

Source: 2003 AACS.

**R 408.31099**

Source: 1998-2000 AACS.

**PART 11. PREMANUFACTURED UNITS**

**R 408.31101**

Source: 1979 AC.

**R 408.31103**

Source: 1984 AACS.

**R 408.31104**

Source: 1984 AACS.

**R 408.31105**

Source: 1984 AACS.

**R 408.31106**

Source: 1984 AACS.

**R 408.31107**

Source: 2006 AACS.

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**R 408.31111**  
Source: 1984 AACS.

**R 408.31112**  
Source: 1979 AC.

**R 408.31113**  
Source: 1984 AACS.

**R 408.31121**  
Source: 1979 AC.

**R 408.31122**  
Source: 1984 AACS.

**R 408.31131**  
Source: 1979 AC.

**R 408.31132**  
Source: 1984 AACS.

**R 408.31133**  
Source: 1984 AACS.

**R 408.31134**  
Source: 1984 AACS.

**R 408.31135**  
Source: 1984 AACS.

**R 408.31136**  
Source: 1984 AACS.

**R 408.31137**  
Source: 1984 AACS.

**R 408.31138**  
Source: 1984 AACS.

**R 408.31139**  
Source: 1984 AACS.

**R 408.31141**  
Source: 1984 AACS.

**R 408.31142**  
Source: 1984 AACS.

**R 408.31143**  
Source: 1979 AC.

**R 408.31144**  
Source: 1984 AACS.

**R 408.31145**  
Source: 1984 AACS.

**R 408.31151**  
Source: 1979 AC.

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**R 408.31152**  
Source: 1984 AACS.

**R 408.31153**  
Source: 1984 AACS.

**R 408.31161**  
Source: 1979 AC.

**R 408.31162**  
Source: 1984 AACS.

**R 408.31163**  
Source: 1979 AC.

**R 408.31164**  
Source: 1979 AC.

**R 408.31165**  
Source: 1979 AC.

**R 408.31166**  
Source: 1979 AC.

**R 408.31167**  
Source: 1984 AACS.

**R 408.31168**  
Source: 1984 AACS.

**R 408.31169**  
Source: 2006 AACS.

**R 408.31170**  
Source: 2004 AACS.

**R 408.31171**  
Source: 1979 AC.

**R 408.31172**  
Source: 1984 AACS.

**R 408.31174**  
Source: 1984 AACS.

**R 408.31191**  
Source: 1979 AC.

**R 408.31192**  
Source: 1979 AC.

**R 408.31193**  
Source: 1979 AC.

**R 408.31194**  
Source: 1984 AACS.

**CONSTRUCTION SAFETY STANDARDS**

**PART 1. GENERAL RULES**

- R 408.40101**  
Source: 1983 AACS.
- R 408.40102**  
Source: 1998-2000 AACS.
- R 408.40103**  
Source: 1997 AACS.
- R 408.40104**  
Source: 1997 AACS.
- R 408.40105**  
Source: 1997 AACS.
- R 408.40106**  
Source: 1997 AACS.
- R 408.40111**  
Source: 1997 AACS.
- R 408.40112**  
Source: 1997 AACS.
- R 408.40114**  
Source: 2002 AACS.
- R 408.40115**  
Source: 1995 AACS.
- R 408.40116**  
Source: 1983 AACS.
- R 408.40118**  
Source: 1983 AACS.
- R 408.40119**  
Source: 1983 AACS.
- R 408.40120**  
Source: 1996 AACS.
- R 408.40121**  
Source: 1983 AACS.
- R 408.40122**  
Source: 1998-2000 AACS.
- R 408.40123**  
Source: 1983 AACS.
- R 408.40125**  
Source: 1983 AACS.

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**R 408.40126**  
Source: 1983 AACS.

**R 408.40127**  
Source: 1995 AACS.

**R 408.40128**  
Source: 2002 AACS.

**R 408.40129**  
Source: 1995 AACS.

**R 408.40130**  
Source: 1995 AACS.

**R 408.40131**  
Source: 1995 AACS.

**R 408.40132**  
Source: 2002 AACS.

**R 408.40133**  
Source: 2002 AACS.

**R 408.40134**  
Source: 2002 AACS.

**PART 2. MASONRY WALL BRACING**

**R 408.40201**  
Source: 1989 AACS.

**R 408.40202**  
Source: 1989 AACS.

**R 408.40203**  
Source: 1989 AACS.

**R 408.40204**  
Source: 1989 AACS.

**R 408.40205**  
Source: 1989 AACS.

**R 408.40206**  
Source: 1989 AACS.

**R 408.40207**  
Source: 1989 AACS.

**R 408.40208**  
Source: 1989 AACS.

**R 408.40209**  
Source: 1989 AACS.

**R 408.40210**  
Source: 1989 AACS.

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**PART 6. PERSONAL PROTECTIVE EQUIPMENT**

- R 408.40601**  
Source: 1980 AACS.
- R 408.40615**  
Source: 1998-2000 AACS.
- R 408.40616**  
Source: 1998-2000 AACS.
- R 408.40617**  
Source: 1985 AACS.
- R 408.40621**  
Source: 1998-2000 AACS.
- R 408.40622**  
Source: 1980 AACS.
- R 408.40623**  
Source: 1998-2000 AACS.
- R 408.40624**  
Source: 1988 AACS.
- R 408.40625**  
Source: 1998-2000 AACS.
- R 408.40626**  
Source: 1982 AACS.
- R 408.40627**  
Source: 1980 AACS.
- R 408.40631**  
Source: 1998-2000 AACS.
- R 408.40632**  
Source: 1998-2000 AACS.
- R 408.40633**  
Source: 1996 AACS.
- R 408.40634**  
Source: 1980 AACS.
- R 408.40635**  
Source: 1998-2000 AACS.
- R 408.40636**  
Source: 1980 AACS.
- R 408.40641**  
Source: 1998-2000 AACS.

**PART 7. WELDING AND CUTTING**

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**R 408.40701**  
Source: 1980 AACS.

**R 408.40705**  
Source: 1980 AACS.

**R 408.40706**  
Source: 1980 AACS.

**R 408.40707**  
Source: 1980 AACS.

**R 408.40711**  
Source: 1980 AACS.

**R 408.40712**  
Source: 1980 AACS.

**R 408.40713**  
Source: 1996 AACS.

**R 408.40714**  
Source: 1980 AACS.

**R 408.40715**  
Source: 1980 AACS.

**R 408.40721**  
Source: 1980 AACS.

**R 408.40722**  
Source: 1980 AACS.

**R 408.40723**  
Source: 1980 AACS.

**R 408.40729**  
Source: 1980 AACS.

**R 408.40731**  
Source: 1980 AACS.

**R 408.40732**  
Source: 1980 AACS.

**R 408.40741**  
Source: 1980 AACS.

**R 408.40742**  
Source: 1980 AACS.

**R 408.40743**  
Source: 1980 AACS.

**R 408.40744**  
Source: 1980 AACS.

**R 408.40745**  
Source: 1980 AACS.



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**R 408.40746**  
Source: 1982 AACS.

**R 408.40747**  
Source: 1980 AACS.

**R 408.40751**  
Source: 1982 AACS.

**R 408.40761**  
Source: 1980 AACS.

**R 408.40762**  
Source: 1980 AACS.

**PART 8. HANDLING AND STORAGE OF MATERIALS**

**R 408.40801**  
Source: 1979 AC.

**R 408.40810**  
Source: 2004 AACS.

**R 408.40817**  
Source: 1979 AC.

**R 408.40818**  
Source: 2004 AACS.

**R 408.40819**  
Source: 2004 AACS.

**R 408.40820**  
Source: 1979 AC.

**R 408.40821**  
Source: 2004 AACS.

**R 408.40822**  
Source: 2004 AACS.

**R 408.40823**  
Source: 2004 AACS.

**R 408.40831**  
Source: 2004 AACS.

**R 408.40832**  
Source: 2004 AACS.

**R 408.40833**  
Source: 2004 AACS.

**R 408.40834**  
Source: 2004 AACS.

**R 408.40835**  
Source: 2004 AACS.

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**R 408.40836**  
Source: 2004 AACS.

**R 408.40837**  
Source: 2004 AACS.

**R 408.40840**  
Source: 2004 AACS.

**R 408.40841**  
Source: 2004 AACS.

**PART 9. EXCAVATION, TRENCHING, AND SHORING**

**R 408.40901**  
Source: 1979 AC.

**R 408.40925**  
Source: 1993 AACS.

**R 408.40926**  
Source: 1979 AC.

**R 408.40927**  
Source: 1979 AC.

**R 408.40931**  
Source: 1979 AC.

**R 408.40932**  
Source: 1993 AACS.

**R 408.40933**  
Source: 1979 AC.

**R 408.40934**  
Source: 1993 AACS.

**R 408.40941**  
Source: 1979 AC.

**R 408.40942**  
Source: 1979 AC.

**R 408.40943**  
Source: 1993 AACS.

**R 408.40944**  
Source: 1993 AACS.

**R 408.40945**  
Source: 1993 AACS.

**R 408.40946**  
Source: 1988 AACS.

**R 408.40951**

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**Source:** 1996 AACS.

**R 408.40952**

**Source:** 1979 AC.

**R 408.40953**

**Source:** 1993 AACS.

**PART 10. LIFTING AND DIGGING EQUIPMENT**

**R 408.41001**

**Source:** 1997 AACS.

**R 408.41001a**

**Source:** 1998-2000 AACS.

**R 408.41002a**

**Source:** 1995 AACS.

**R 408.41003a**

**Source:** 1995 AACS.

**R 408.41004**

**Source:** 1997 AACS.

**R 408.41004a**

**Source:** 1995 AACS.

**CRANES, DERRICKS, AND EXCAVATION EQUIPMENT**

**R 408.41005a**

**Source:** 1998-2000 AACS.

**R 408.41006a**

**Source:** 1998-2000 AACS.

**R 408.41007a**

**Source:** 1995 AACS.

**R 408.41008a**

**Source:** 1995 AACS.

**R 408.41009a**

**Source:** 1995 AACS.

**R 408.41010a**

**Source:** 1995 AACS.

**R 408.41011a**

**Source:** 1995 AACS.

**R 408.41012a**

**Source:** 1995 AACS.

**R 408.41013a**

**Source:** 1995 AACS.

**R 408.41014a**

**Source:** 1998-2000 AACS.

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**R 408.41015a**  
Source: 1998-2000 AACS.

**R 408.41016a**  
Source: 1998-2000 AACS.

**R 408.41017a**  
Source: 1995 AACS.

**R 408.41018a**  
Source: 1998-2000 AACS.

**R 408.41019a**  
Source: 1995 AACS.

**R 408.41020a**  
Source: 1998-2000 AACS.

**R 408.41021a**  
Source: 1995 AACS.

**R 408.41022a**  
Source: 1995 AACS.

**R 408.41023a**  
Source: 1998-2000 AACS.

**R 408.41024**  
Source: 1997 AACS.

**R 408.41024a**  
Source: 1995 AACS.

**R 408.41025**  
Source: 1997 AACS.

**R 408.41025a**  
Source: 1998-2000 AACS.

**R 408.41026**  
Source: 1997 AACS.

**R 408.41026a**  
Source: 1995 AACS.

**R 408.41027**  
Source: 1997 AACS.

**R 408.41027a**  
Source: 1995 AACS.

**R 408.41028**  
Source: 1997 AACS.

**R 408.41028a**  
Source: 1998-2000 AACS.

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**R 408.41029a**  
Source: 1995 AACS.

**R 408.41030**  
Source: 1997 AACS.

**R 408.41030a**  
Source: 1995 AACS.

**R 408.41031**  
Source: 1997 AACS.

**R 408.41031a**  
Source: 1998-2000 AACS.

**R 408.41032a**  
Source: 1995 AACS.

**R 408.41033a**  
Source: 1998-2000 AACS.

**R 408.41051a**  
Source: 1995 AACS.

**MATERIAL AND PERSONNEL HOISTS (ELEVATORS)**

**R 408.41065a**  
Source: 1998-2000 AACS.

**R 408.41066a**  
Source: 1995 AACS.

**R 408.41067a**  
Source: 1995 AACS.

**R 408.41068a**  
Source: 1995 AACS.

**R 408.41069a**  
Source: 1995 AACS.

**R 408.41070a**  
Source: 1995 AACS.

**R 408.41070b**  
Source: 1998-2000 AACS.

**PERSONNEL HOISTS**

**R 408.41071a**  
Source: 1998-2000 AACS.

**R 408.41072a**  
Source: 1998-2000 AACS.

**R 408.41073a**  
Source: 1995 AACS.

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**R 408.41074a**  
Source: 1995 AACS.

**R 408.41075a**  
Source: 1995 AACS.

**BASE-MOUNTED DRUM PERSONNEL HOISTS**

**R 408.41077a**  
Source: 1998-2000 AACS.

**R 408.41099a**  
Source: 1995 AACS.

**PART 11. FIXED AND PORTABLE LADDERS**

**R 408.41101**  
Source: 1993 AACS.

**R 408.41102**  
Source: 1979 AC.

**R 408.41103**  
Source: 1993 AACS.

**R 408.41104**  
Source: 1993 AACS.

**R 408.41105**  
Source: 1993 AACS.

**R 408.41111**  
Source: 1993 AACS.

**R 408.41112**  
Source: 1993 AACS.

**R 408.41113**  
Source: 1993 AACS.

**R 408.41115**  
Source: 1993 AACS.

**R 408.41121**  
Source: 1993 AACS.

**R 408.41122**  
Source: 1993 AACS.

**R 408.41123**  
Source: 1993 AACS.

**R 408.41124**  
Source: 1993 AACS.

**R 408.41125**  
Source: 1993 AACS.

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**R 408.41126**  
Source: 1993 AACS.

**R 408.41127**  
Source: 1996 AACS.

**R 408.41128**  
Source: 1990 AACS.

**R 408.41129**  
Source: 1990 AACS.

**R 408.41130**  
Source: 1990 AACS.

**R 408.41131**  
Source: 1990 AACS.

**R 408.41132**  
Source: 1990 AACS.

**R 408.41133**  
Source: 1990 AACS.

**R 408.41140**  
Source: 1990 AACS.

**PART 12. SCAFFOLDS AND SCAFFOLD PLATFORMS**

**R 408.41201**  
Source: 1998-2000 AACS.

**R 408.41203**  
Source: 1998-2000 AACS.

**R 408.41204**  
Source: 1998-2000 AACS.

**R 408.41205**  
Source: 1998-2000 AACS.

**R 408.41206**  
Source: 1998-2000 AACS.

**R 408.41207**  
Source: 1998-2000 AACS.

**R 408.41208**  
Source: 1998-2000 AACS.

**R 408.41209**  
Source: 1998-2000 AACS.

**R 408.41210**  
Source: 1998-2000 AACS.

**R 408.41211**  
Source: 1998-2000 AACS.

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**R 408.41212**  
Source: 1998-2000 AACS.

**R 408.41213**  
Source: 1998-2000 AACS.

**R 408.41214**  
Source: 1998-2000 AACS.

**R 408.41215**  
Source: 1981 AACS.

**R 408.41216**  
Source: 1981 AACS.

**R 408.41217**  
Source: 1998-2000 AACS.

**R 408.41218**  
Source: 1981 AACS.

**R 408.41219**  
Source: 1998-2000 AACS.

**FLOOR AND GROUND SUPPORTED SCAFFOLDS**

**R 408.41221**  
Source: 1998-2000 AACS.

**R 408.41222**  
Source: 1981 AACS.

**R 408.41223**  
Source: 1998-2000 AACS.

**R 408.41224**  
Source: 1998-2000 AACS.

**R 408.41225**  
Source: 1981 AACS.

**R 408.41226**  
Source: 1981 AACS.

**R 408.41227**  
Source: 1998-2000 AACS.

**R 408.41228**  
Source: 1981 AACS.

**R 408.41229**  
Source: 1998-2000 AACS.

**SUSPENDED SCAFFOLDS**

**R 408.41231**



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**Source:** 1998-2000 AACS.

**R 408.41232**

**Source:** 1990 AACS.

**R 408.41233**

**Source:** 1998-2000 AACS.

**R 408.41234**

**Source:** 1998-2000 AACS.

**R 408.41235**

**Source:** 1998-2000 AACS.

**R 408.41236**

**Source:** 1998-2000 AACS.

**R 408.41237**

**Source:** 1996 AACS.

**R 408.41238**

**Source:** 1996 AACS.

**R 408.41239**

**Source:** 1998-2000 AACS.

**R 408.41240**

**Source:** 1998-2000 AACS.

**MOBILE SCAFFOLDS**

**R 408.41241**

**Source:** 1998-2000 AACS.

**R 408.41242**

**Source:** 1997 AACS.

**R 408.41243**

**Source:** 1997 AACS.

**R 408.41244**

**Source:** 1997 AACS.

**R 408.41245**

**Source:** 1997 AACS.

**R 408.41246**

**Source:** 1997 AACS.

**R 408.41251**

**Source:** 1998-2000 AACS.

**AUXILIARY SUPPORTED SCAFFOLDS**

**R 408.41252**

**Source:** 1997 AACS.

**R 408.41253**

**Source:** 1981 AACS.

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**R 408.41254**  
Source: 1981 AACS.

**R 408.41255**  
Source: 1990 AACS.

**R 408.41256**  
Source: 1981 AACS.

**R 408.41256a**  
Source: 1998-2000 AACS.

**R 408.41256b**  
Source: 1998-2000 AACS.

**R 408.41257**  
Source: 1997 AACS.

**R 408.41258**  
Source: 1997 AACS.

**R 408.41259**  
Source: 1997 AACS.

**R 408.41260**  
Source: 1997 AACS.

**WIRE, FIBER, AND SYNTHETIC ROPE**

**R 408.41261**  
Source: 1998-2000 AACS.

**R 408.41262**  
Source: 1981 AACS.

**R 408.41263**  
Source: 1981 AACS.

**R 408.41264**  
Source: 1998-2000 AACS.

**PART 13. MOBILE EQUIPMENT**

**R 408.41301**  
Source: 1998-2000 AACS.

**PART 14. TUNNELS, SHAFTS, CAISSONS, AND COFFERDAMS**  
**GENERAL PROVISIONS**

**R 408.41401**  
Source: 2003 AACS.

**R 408.41405**  
Source: 2003 AACS.

**R 408.41410**  
Source: 2003 AACS.

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**R 408.41454**  
Source: 2003 AACS.

**R 408.41455**  
Source: 2003 AACS.

**R 408.41456**  
Source: 2003 AACS.

**R 408.41461**  
Source: 2003 AACS.

**R 408.41462**  
Source: 2003 AACS.

**R 408.41463**  
Source: 2003 AACS.

**R 408.41464**  
Source: 2003 AACS.

**R 408.41465**  
Source: 2003 AACS.

**R 408.41466**  
Source: 2003 AACS.

**R 408.41467**  
Source: 2003 AACS.

**R 408.41468**  
Source: 1979 AC.

**TUNNELS AND SHAFTS**

**R 408.41471**  
Source: 2003 AACS.

**R 408.41472**  
Source: 2003 AACS.

**R 408.41473**  
Source: 1979 AC.

**R 408.41474**  
Source: 2003 AACS.

**R 408.41475**  
Source: 2003 AACS.

**R 408.41476**  
Source: 2003 AACS.

**R 408.41477**  
Source: 2003 AACS.

**R 408.41478**

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**Source:** 2003 AACS.

**R 408.41479**

**Source:** 2003 AACS.

**COFFERDAMS AND CAISSONS**

**R 408.41481**

**Source:** 2003 AACS.

**R 408.41482**

**Source:** 1996 AACS.

**R 408.41483**

**Source:** 2003 AACS.

**PART 16. POWER TRANSMISSION AND DISTRIBUTION**

**R 408.41601**

**Source:** 1982 AACS.

**R 408.41610**

**Source:** 2005 AACS.

**R 408.41625**

**Source:** 1982 AACS.

**R 408.41626**

**Source:** 1982 AACS.

**R 408.41627**

**Source:** 2005 AACS.

**R 408.41628**

**Source:** 1982 AACS.

**R 408.41629**

**Source:** 1982 AACS.

**R 408.41630**

**Source:** 2005 AACS.

**R 408.41631**

**Source:** 1982 AACS.

**R 408.41632**

**Source:** 2005 AACS.

**R 408.41633**

**Source:** 2005 AACS.

**R 408.41634**

**Source:** 2005 AACS.

**R 408.41635**

**Source:** 2005 AACS.

**R 408.41636**

**Source:** 2005 AACS.

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**R 408.41637**  
Source: 2005 AACs.

**R 408.41638**  
Source: 2005 AACs.

**R 408.41639**  
Source: 1982 AACs.

**R 408.41640**  
Source: 1982 AACs.

**R 408.41641**  
Source: 2005 AACs.

**R 408.41642**  
Source: 2005 AACs.

**R 408.41643**  
Source: 2005 AACs.

**R 408.41644**  
Source: 1985 AACs.

**R 408.41645**  
Source: 2005 AACs.

**R 408.41646**  
Source: 2005 AACs.

**R 408.41647**  
Source: 2005 AACs.

**R 408.41648**  
Source: 1985 AACs.

**R 408.41649**  
Source: 1985 AACs.

**R 408.41650**  
Source: 2005 AACs.

**R 408.41651**  
Source: 1982 AACs.

**R 408.41652**  
Source: 1982 AACs.

**R 408.41653**  
Source: 2005 AACs.

**R 408.41654**  
Source: 1982 AACs.

**R 408.41655**  
Source: 1982 AACs.

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**R 408.41656**  
Source: 1982 AACS.

**R 408.41657**  
Source: 1982 AACS.

**R 408.41658**  
Source: 1982 AACS.

**PART 17. ELECTRICAL INSTALLATIONS**

**R 408.41701**  
Source: 1979 AC.

**R 408.41717**  
Source: 1979 AC.

**R 408.41718**  
Source: 1979 AC.

**R 408.41719**  
Source: 1979 AC.

**R 408.41720**  
Source: 1979 AC.

**R 408.41722**  
Source: 1979 AC.

**R 408.41723**  
Source: 1979 AC.

**R 408.41724**  
Source: 1979 AC.

**R 408.41725**  
Source: 1979 AC.

**R 408.41726**  
Source: 1979 AC.

**R 408.41727**  
Source: 1979 AC.

**R 408.41728**  
Source: 1979 AC.

**R 408.41729**  
Source: 1979 AC.

**R 408.41730**  
Source: 1979 AC.

**R 408.41731**  
Source: 1979 AC.

**R 408.41732**  
Source: 1979 AC.

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**R 408.41733**  
Source: 1982 AACS.

**R 408.41734**  
Source: 1979 AC.

**PART 18. FIRE PROTECTION AND PREVENTION**

**R 408.41801**  
Source: 2002 AACS.

**R 408.41802**  
Source: 2002 AACS.

**R 408.41836**  
Source: 2002 AACS.

**R 408.41837**  
Source: 2002 AACS.

**R 408.41838**  
Source: 2002 AACS.

**R 408.41841**  
Source: 2002 AACS.

**R 408.41842**  
Source: 2002 AACS.

**R 408.41850**  
Source: 1995 AACS.

**R 408.41851**  
Source: 2002 AACS.

**R 408.41852**  
Source: 2002 AACS.

**R 408.41853**  
Source: 2002 AACS.

**R 408.41854**  
Source: 1983 AACS.

**R 408.41855**  
Source: 1983 AACS.

**R 408.41856**  
Source: 1983 AACS.

**R 408.41861**  
Source: 2002 AACS.

**R 408.41862**  
Source: 1983 AACS.

**R 408.41863**  
Source: 2002 AACS.

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**R 408.41864**  
Source: 2002 AACS.

**R 408.41865**  
Source: 1983 AACS.

**R 408.41866**  
Source: 2002 AACS.

**R 408.41867**  
Source: 1983 AACS.

**R 408.41868**  
Source: 2002 AACS.

**R 408.41869**  
Source: 2002 AACS.

**R 408.41871**  
Source: 2002 AACS.

**R 408.41872**  
Source: 1983 AACS.

**R 408.41873**  
Source: 1983 AACS.

**R 408.41874**  
Source: 1983 AACS.

**R 408.41875**  
Source: 2002 AACS.

**R 408.41876**  
Source: 2002 AACS.

**R 408.41877**  
Source: 2002 AACS.

**R 408.41878**  
Source: 1983 AACS.

**R 408.41879**  
Source: 1983 AACS.

**R 408.41881**  
Source: 1983 AACS.

**R 408.41882**  
Source: 1983 AACS.

**R 408.41883**  
Source: 1983 AACS.

**R 408.41884**  
Source: 2002 AACS.



**PART 19. TOOLS**

- R 408.41901**  
Source: 1979 AC.
- R 408.41926**  
Source: 1989 AACS.
- R 408.41927**  
Source: 1989 AACS.
- R 408.41928**  
Source: 1989 AACS.
- R 408.41929**  
Source: 1989 AACS.
- R 408.41931**  
Source: 1979 AC.
- R 408.41932**  
Source: 1989 AACS.
- R 408.41933**  
Source: 1989 AACS.
- R 408.41934**  
Source: 1989 AACS.
- R 408.41935**  
Source: 1995 AACS.
- R 408.41936**  
Source: 1982 AACS.
- R 408.41937**  
Source: 1989 AACS.
- R 408.41938**  
Source: 1979 AC.
- R 408.41941**  
Source: 1979 AC.
- R 408.41942**  
Source: 1979 AC.
- R 408.41943**  
Source: 1982 AACS.
- R 408.41944**  
Source: 1997 AACS.
- R 408.41945**  
Source: 1997 AACS.
- R 408.41949**  
Source: 1997 AACS.

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- R 408.41950**  
Source: 1979 AC.
- R 408.41951**  
Source: 1989 AACS.
- R 408.41952**  
Source: 1979 AC.
- R 408.41953**  
Source: 1979 AC.
- R 408.41954**  
Source: 1979 AC.
- R 408.41955**  
Source: 1989 AACS.
- R 408.41956**  
Source: 1979 AC.
- R 408.41957**  
Source: 1989 AACS.
- R 408.41958**  
Source: 1997 AACS.
- R 408.41959**  
Source: 1989 AACS.
- R 408.41960**  
Source: 1989 AACS.
- R 408.41961**  
Source: 1995 AACS.
- R 408.41962**  
Source: 1989 AACS.
- R 408.41963**  
Source: 1997 AACS.
- R 408.41964**  
Source: 1989 AACS.
- R 408.41966**  
Source: 1995 AACS.
- R 408.41967**  
Source: 1979 AC.
- R 408.41968**  
Source: 1979 AC.
- R 408.41969**  
Source: 1979 AC.
- R 408.41970**  
Source: 1989 AACS.

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**R 408.41971**  
Source: 1989 AACS.

**R 408.41972**  
Source: 1989 AACS.

**R 408.41973**  
Source: 1989 AACS.

**R 408.41974**  
Source: 1989 AACS.

**R 408.41975**  
Source: 1989 AACS.

**R 408.41976**  
Source: 1989 AACS.

**R 408.41977**  
Source: 1989 AACS.

**R 408.41978**  
Source: 1989 AACS.

**R 408.41979**  
Source: 1989 AACS.

**R 408.41980**  
Source: 1995 AACS.

**PART 20. DEMOLITION**

**R 408.42001**  
Source: 1981 AACS.

**R 408.42023**  
Source: 1998-2000 AACS.

**R 408.42031**  
Source: 1998-2000 AACS.

**R 408.42032**  
Source: 1996 AACS.

**R 408.42033**  
Source: 1981 AACS.

**R 408.42034**  
Source: 1981 AACS.

**R 408.42041**  
Source: 1996 AACS.

**R 408.42043**  
Source: 1981 AACS.

**R 408.42044**  
Source: 1981 AACS.

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**R 408.42045**  
Source: 1981 AACS.

**R 408.42046**  
Source: 1981 AACS.

**R 408.42047**  
Source: 1981 AACS.

**PART 21. GUARDING OF WALKING AND WORKING AREAS**

**R 408.42101**  
Source: 1996 AACS.

**R 408.42121**  
Source: 1996 AACS.

**R 408.42122**  
Source: 1996 AACS.

**R 408.42123**  
Source: 1996 AACS.

**R 408.42127**  
Source: 1993 AACS.

**R 408.42128**  
Source: 1993 AACS.

**R 408.42129**  
Source: 1993 AACS.

**R 408.42130**  
Source: 1993 AACS.

**R 408.42131**  
Source: 1996 AACS.

**R 408.42140**  
Source: 1997 AACS.

**R 408.42141**  
Source: 1997 AACS.

**R 408.42142**  
Source: 1997 AACS.

**R 408.42143**  
Source: 1997 AACS.

**R 408.42144**  
Source: 1997 AACS.

**R 408.42145**  
Source: 1996 AACS.

**R 408.42146**  
Source: 1997 AACS.

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**R 408.42147**  
Source: 1997 AACS.

**R 408.42148**  
Source: 1997 AACS.

**R 408.42149**  
Source: 1989 AACS.

**R 408.42150**  
Source: 1996 AACS.

**R 408.42151**  
Source: 1997 AACS.

**R 408.42152**  
Source: 1997 AACS.

**R 408.42153**  
Source: 1997 AACS.

**R 408.42154**  
Source: 1989 AACS.

**R 408.42155**  
Source: 1993 AACS.

**R 408.42156**  
Source: 1993 AACS.

**R 408.42157**  
Source: 1993 AACS.

**R 408.42158**  
Source: 1997 AACS.

**R 408.42159**  
Source: 1989 AACS.

**R 408.42160**  
Source: 1996 AACS.

**PART 22. SIGNALS, SIGNS, TAGS, AND BARRICADES**

**R 408.42201**  
Source: 2001 AACS.

**R 408.42209**  
Source: 2006 AACS.

**R 408.42210**  
Source: 1997 AACS.

**R 408.42211**  
Source: 2001 AACS.

**R 408.42212**  
Source: 2001 AACS.

**R 408.42213**

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Source: 2001 AACS.

**R 408.42221**

Source: 2001 AACS.

**R 408.42222**

Source: 2001 AACS.

**R 408.42223**

Source: 2006 AACS.

**R 408.42224**

Source: 2001 AACS.

**R 408.42225**

Source: 2006 AACS.

**R 408.42229**

Source: 2001 AACS.

**R 408.42230**

Source: 2001 AACS.

**R 408.42231**

Source: 1995 AACS.

**R 408.42232**

Source: 1997 AACS.

**R 408.42233**

Source: 2001 AACS.

**R 408.42235**

Source: 2006 AACS.

**R 408.42238**

Source: 2006 AACS.

**R 408.42242**

Source: 1979 AC.

**R 408.42243**

Source: 1995 AACS.

**PART 24. TAR KETTLES**

**R 408.42401**

Source: 1991 AACS.

**R 408.42402**

Source: 1979 AC.

**R 408.42403**

Source: 1981 AACS.

**R 408.42404**

Source: 1981 AACS.

**R 408.42405**

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**Source:** 1979 AC.

**R 408.42406**

**Source:** 1979 AC.

**R 408.42407**

**Source:** 1996 AACS.

**PART 25. CONCRETE CONSTRUCTION**

**R 408.42501**

**Source:** 2003 AACS.

**R 408.42502**

**Source:** 2003 AACS.

**R 408.42503**

**Source:** 2003 AACS.

**R 408.42516**

**Source:** 2003 AACS.

**R 408.42517**

**Source:** 2003 AACS.

**R 408.42518**

**Source:** 2003 AACS.

**R 408.42519**

**Source:** 2003 AACS.

**R 408.42520**

**Source:** 2003 AACS.

**R 408.42521**

**Source:** 2003 AACS.

**R 408.42522**

**Source:** 2003 AACS.

**R 408.42523**

**Source:** 2003 AACS.

**R 408.42524**

**Source:** 1989 AACS.

**R 408.42525**

**Source:** 1980 AACS.

**R 408.42526**

**Source:** 1980 AACS.

**R 408.42527**

**Source:** 2003 AACS.

**R 408.42528**

**Source:** 1989 AACS.

**R 408.42531**

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**Source:** 1989 AACS.

**R 408.42532**

**Source:** 2003 AACS.

**R 408.42533**

**Source:** 2003 AACS.

**R 408.42534**

**Source:** 1989 AACS.

**R 408.42535**

**Source:** 2003 AACS.

**PART 26. STEEL AND PRECAST ERECTION**

**R 408.42601**

**Source:** 2002 AACS.

**R 408.42602**

**Source:** 2007 AACS.

**R 408.42604**

**Source:** 2002 AACS.

**R 408.42605**

**Source:** 2007 AACS.

**R 408.42606**

**Source:** 2002 AACS.

**R 408.42607**

**Source:** 2002 AACS.

**R 408.42608**

**Source:** 2007 AACS.

**R 408.42609**

**Source:** 2007 AACS.

**R 408.42610**

**Source:** 2002 AACS.

**R 408.42611**

**Source:** 1997 AACS.

**R 408.42612**

**Source:** 1997 AACS.

**R 408.42613**

**Source:** 1997 AACS.

**R 408.42614**

**Source:** 2002 AACS.

**R 408.42615**

**Source:** 2002 AACS.

**R 408.42616**



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Source: 2007 AACCS.

**R 408.42617**

Source: 2002 AACCS.

**R 408.42618**

Source: 2002 AACCS.

**R 408.42620**

Source: 2002 AACCS.

**R 408.42621**

Source: 2002 AACCS.

**R 408.42622**

Source: 2002 AACCS.

**R 408.42623**

Source: 2002 AACCS.

**R 408.42624**

Source: 2007 AACCS.

**R 408.42625**

Source: 2007 AACCS.

**R 408.42626**

Source: 2002 AACCS.

**R 408.42628**

Source: 2007 AACCS.

**R 408.42629**

Source: 2007 AACCS.

**R 408.42630**

Source: 2002 AACCS.

**R 408.42632**

Source: 2002 AACCS.

**R 408.42634**

Source: 2007 AACCS.

**R 408.42636**

Source: 2007 AACCS.

**R 408.42638**

Source: 2002 AACCS.

**R 408.42640**

Source: 2002 AACCS.

**R 408.42642**

Source: 2002 AACCS.

**R 408.42643**

Source: 2002 AACCS.

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**R 408.42644**  
Source: 2002 AACS.

**R 408.42645**  
Source: 2002 AACS.

**R 408.42646**  
Source: 2002 AACS.

**R 408.42648**  
Source: 2007 AACS.

**R 408.42650**  
Source: 2002 AACS.

**R 408.42651**  
Source: 2007 AACS.

**R 408.42653**  
Source: 2002 AACS.

**R 408.42654**  
Source: 2002 AACS.

**R 408.42655**  
Source: 2007 AACS.

**R 408.42656**  
Source: 2002 AACS.

**PART 27. BLASTING AND USE OF EXPLOSIVES**

**R 408.42701**  
Source: 1982 AACS.

**R 408.42724**  
Source: 1982 AACS.

**R 408.42725**  
Source: 1982 AACS.

**R 408.42726**  
Source: 1982 AACS.

**R 408.42727**  
Source: 1982 AACS.

**R 408.42728**  
Source: 1982 AACS.

**R 408.42731**  
Source: 1982 AACS.

**R 408.42732**  
Source: 1982 AACS.

**R 408.42733**  
Source: 1982 AACS.

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**R 408.42734**  
Source: 1982 AACS.

**R 408.42735**  
Source: 1988 AACS.

**R 408.42737**  
Source: 1982 AACS.

**R 408.42741**  
Source: 1994 AACS.

**R 408.42742**  
Source: 1982 AACS.

**R 408.42743**  
Source: 1982 AACS.

**R 408.42744**  
Source: 1982 AACS.

**R 408.42751**  
Source: 1982 AACS.

**R 408.42752**  
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**R 408.42754**  
Source: 1982 AACS.

**R 408.42755**  
Source: 1982 AACS.

**R 408.42756**  
Source: 1982 AACS.

**R 408.42757**  
Source: 1982 AACS.

**R 408.42758**  
Source: 1982 AACS.

**R 408.42759**  
Source: 1982 AACS.

**R 408.42761**  
Source: 1982 AACS.

**R 408.42762**  
Source: 1982 AACS.

**R 408.42763**  
Source: 1982 AACS.

**R 408.42799**  
Source: 1988 AACS.

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**PART 28 PERSONNEL HOISTING IN STEEL ERECTION**

**R 408.42801**  
Source: 2007 AACS.

**R 408.42804**  
Source: 2007 AACS.

**R 408.42806**  
Source: 2007 AACS.

**R 408.42809**  
Source: 2007 AACS.

**PART 30. TELECOMMUNICATIONS**

**R 408.43001**  
Source: 2005 AACS.

**R 408.43002**  
Source: 2005 AACS.

**R 408.43003**  
Source: 2005 AACS.

**R 408.43005**  
Source: 2005 AACS.

**R 408.43006**  
Source: 2005 AACS.

**PART 31. DIVING OPERATIONS**

**R 408.43101**  
Source: 1979 AC.

**R 408.43103**  
Source: 1979 AC.

**R 408.43104**  
Source: 1979 AC.

**R 408.43105**  
Source: 1979 AC.

**R 408.43106**  
Source: 1994 AACS.

**R 408.43107**  
Source: 1979 AC.

**R 408.43109**  
Source: 1994 AACS.

**R 408.43111**  
Source: 1979 AC.

**R 408.43112**  
Source: 1979 AC.

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- R 408.43114**  
Source: 1979 AC.
- R 408.43121**  
Source: 1994 AACS.
- R 408.43122**  
Source: 1979 AC.
- R 408.43123**  
Source: 1979 AC.
- R 408.43124**  
Source: 1979 AC.
- R 408.43125**  
Source: 1979 AC.
- R 408.43126**  
Source: 1979 AC.
- R 408.43127**  
Source: 1979 AC.
- R 408.43131**  
Source: 1979 AC.
- R 408.43132**  
Source: 1979 AC.
- R 408.43133**  
Source: 1979 AC.
- R 408.43134**  
Source: 1979 AC.
- R 408.43141**  
Source: 1979 AC.
- R 408.43142**  
Source: 1979 AC.
- R 408.43145**  
Source: 1979 AC.
- R 408.43146**  
Source: 1979 AC.
- R 408.43151**  
Source: 1979 AC.
- R 408.43152**  
Source: 1979 AC.
- R 408.43153**  
Source: 1979 AC.
- R 408.43154**  
Source: 1979 AC.

**R 408.43155**  
**Source:** 1994 AACS.

**R 408.43156**  
**Source:** 1994 AACS.

**R 408.43157**  
**Source:** 1979 AC.

**R 408.43158**  
**Source:** 1979 AC.

**R 408.43161**  
**Source:** 1979 AC.

**R 408.43162**  
**Source:** 1994 AACS.

## **PART 32. AERIAL WORK PLATFORMS**

**R 408.43201. Scope.**

Rule 3201. These rules apply to the construction, operation, maintenance, and inspection of aerial work platforms with either manual or powered mobility as used in construction operations as defined by 1974 PA 154, MCL 408.1001 to MCL 408.1094.

History: 1992 MR 6, Eff. July 9, 1992; 2008 MR 5, Eff. Mar 20, 2008.

**R 408.43202. Equipment covered.**

Rule 3202. (1) These rules apply to equipment that has a primary function of elevating personnel, together with their tools and necessary materials, on a platform, which is mechanically positioned. The units covered are described by the following American national standards institute standards:

(a) ANSI standard A92.2, 2002 edition, "Vehicle-Mounted Elevating and Rotating Aerial Devices," which is adopted by reference in R 408.43204a. This standard applies to vehicle-mounted devices installed on commercial chassis and covers the following type of units (See figure 1):

- (i) Extensible boom aerial devices.
- (ii) Aerial ladders.
- (iii) Articulating boom aerial devices.
- (iv) Vertical towers.

(v) A combination of any of the equipment specified in paragraphs (i) to (iv) of this subdivision.

(b) ANSI standard A92.3, 2006 edition, "Manually Propelled Elevating Aerial Platforms," which is adopted by reference in R 408.43204a. This standard applies to work platforms which are manually propelled, which are vertically adjustable by manual or powered means, and which may be towed or manually moved horizontally on wheels or casters that are an integral part of the work platform base. (See figure 2).

(c) ANSI standard A92.5, 2006 edition, "Boom-Supported Elevating Work Platforms," which is adopted by reference in R 408.43204a. This standard applies to all integral frame, boom-supported elevating work platforms which telescope, articulate, rotate, or extend beyond the base dimensions. (See figure 3).

(d) ANSI standard A92.6, 1999 edition, "Self-Propelled Elevating Work Platforms," which is adopted by reference in R 408.43204a. This standard applies to self-propelled vertically adjustable integral chassis work platforms. Such work platforms are power-operated with primary controls for all movement operated from the platform. (See figure 4).

(2) Equipment adapted to elevating personnel with a primary function other than elevating personnel, such as fork trucks or cranes, are not covered by these rules. Those types of equipment are provided for in construction safety standards Part 10. "Lifting and Digging Equipment," R 408.41001a to R 408.41099a and Part 13. "Mobile Equipment," R 408.101301.

Exception: If the above-adapted equipment is equipped with controls that can be operated from the platform, then the requirements of R 408.43205 to R 408.43216 shall apply.

History: 1992 MR 6, Eff. July 9, 1992; 2000 MR 5, Eff. Apr. 27, 2000; 2008 MR 5, Eff. Mar. 20, 2008.

**R 408.43203. Employer and employee responsibility.**

Rule 3203. (1) An employer shall do all of the following:

- (a) Provide training to employees in the operations, hazards, safeguards and safe practices described in these rules by a

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qualified person.

(b) Ensure that employees do not engage in the activities to which these rules apply until such employees have received training.

(c) Maintain an aerial device in a condition free of known defects and hazards which could cause an injury.

(2) An employee shall do both of the following:

(a) Operate an aerial device only after being trained in the operations, hazards, safeguards and safe practices required by these rules by a qualified person and authorized by the employer.

(b) Report known defects and hazards concerning an aerial device to the supervisor.

History: 1992 MR 6, Eff. July 9, 1992; 2008 MR 5, Eff. Mar. 20, 2008.

**R 408.43204. Definitions.**

Rule 3204. (1) "Aerial device" or "aerial work platform" means an entire device that is designed and manufactured to raise personnel to an elevated work position on a platform supported by scissors, masts, or booms.

(2) "Aerial ladder" means an aerial device that consists of a single- or multiple-section rung ladder.

(3) "Articulating boom" means an aerial device that has ~~two~~ 2 or more hinged boom sections.

(4) "Authorized person" means a person who is approved and assigned to perform specific types of duties by the employer and who is qualified to perform those duties because of his or her training or experience.

(5) "Commercial chassis" means a vehicle that is built for over-the-road (roadway) travel.

(6) "Exposed power line" means a power line that is not isolated or guarded.

(7) "Extensible boom" means an aerial device, except for the aerial ladder-type, that has a telescopic boom.

(8) "Insulated aerial device" means an aerial work platform that is designed with dielectric components to meet specific electrical insulating ratings.

(9) "Mechanically positioned" means that the elevating assembly, whether a mechanical (cable or chain), hydraulic, pneumatic, electric or other powered mechanism, is used to raise or lower the platform.

(10) "Platform" means the portion of an aerial work platform, such as a bucket, basket, stand, cage, or the equivalent, that is designed to be occupied by personnel.

(11) "Power Line" means a distribution or transmission electrical line.

(12) "Qualified person" means a person who possesses a recognized degree, certificate, professional standing, or skill and who, by knowledge, training, and experience, has demonstrated the ability to deal with problems relating to the subject matter, the work, or the project.

(13) "Qualified telecommunications employee" means an employee trained to work on communication lines in the proximity of energized power transmission and distribution lines.

(14) "Vehicle" means any carrier that is not manually propelled.

(15) "Vehicle-mounted elevating and rotating work platform" means an aerial device or aerial work platform.

(16) "Vertical tower" means an aerial device that is designed to operate vertically on a level surface.

History: 1992 MR 6, Eff. July 9, 1992; 2008 MR 5, Eff. Mar. 20, 2008.

**R 408.43204a. Adoption of standards by reference; access to other MIOSHA rules.**

Rule 3204a. (1) The standards specified in this rule, except for the standards specified in subrule (2) of this rule, are adopted by reference.

(a) The following ANSI standards are available from Global Engineering Documents, 15 Inverness Way East, Englewood, Colorado, 80112, USA, telephone number: 1-800-854-7179 or via the internet at web-site: <http://global.ihs.com>; at a cost, as of the time of adoption of these rules, as stated in this subrule:

(i) American National Standard Institute Standard ANSI A92.2, "Vehicle-Mounted Elevating and Rotating Aerial Devices," 2002 edition. Cost: \$68.00.

(ii) American National Standard Institute Standard ANSI A92.3, "Manually Propelled Elevating Aerial Platforms," 2006 edition. Cost: \$68.00.

(iii) American National Standard Institute Standard ANSI A92.5, "Boom-Supported Elevating Work Platforms," 2006 edition. Cost: \$68.00.

(iv) American National Standard Institute Standard ANSI A92.6, "Self-Propelled Elevating Work Platforms," 1999 edition. Cost \$68.00.

(b) The "Manual on Uniform Traffic Control Devices for Streets and Highways, Part 6: Temporary Traffic Control," 2005 Michigan/2003 Federal Edition is available at no cost from the Michigan Department of Transportation via the Internet at website: [www.michigan.gov/mdot](http://www.michigan.gov/mdot). The entire 2005 MMUTCD may be purchased from Michigan Technological University, Local Technical Assistance Program, Room 309 Dillman Building, 1400 Townsend Drive, Houghton, Michigan, 49931; (906) 487-2102; at a cost of \$135.00 as of the time of publication of these rules.

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(c) The standards adopted in subrule 1(a) and (b) of this rule are also available for inspection at the Department of Labor and Economic Growth, MIOSHA Standards Section, 7150 Harris Drive, P.O. Box 30643, Lansing, Michigan, 48909-8143.

(d) Copies of the standards adopted in subrule 1(a) and (b) of this rule may be obtained quickest from the publisher or may also be obtained from the Department of Labor and Economic Growth, MIOSHA Standards Section, 7150 Harris Drive, P.O. Box 30643, Lansing, Michigan, 48909-8143, at the cost charged in subrule 1(a) and (b), of this rule, plus \$20 for shipping and handling.

(2) The following Michigan Occupational Safety and Health Standards are referenced in these rules. Up to 5 copies of these standards may be obtained at no charge from the Michigan Department of Labor and Economic Growth, MIOSHA Standards Section, 7150 Harris Drive, P.O. Box 30643, Lansing, Michigan, 48909-8143 or via the internet at web-site: [www.michigan.gov/mioshastandards](http://www.michigan.gov/mioshastandards). For quantities greater than 5, the cost, as of the time of adoption of these rules, is 4 cents per page.

(a) Construction Safety Standard Part 6. Personal Protective Equipment, R 408.40601 to R 408.40641.

(b) Construction Safety Standard Part 10. Lifting and Digging Equipment, R 408.41001a to R 408.41099a.

(c) Construction Safety Standard Part 13. Mobile Equipment, R 408.101301.

(d) Construction Safety Standard Part 22. Signals, Signs, Tags, and Barricades, R 408.42201 to R 408.42243.

(e) Construction Safety Standard Part 45. Fall Protection, R 408.44501 to R 408.44502.

(f) General Industry Safety Standard Part 7. Guards for Power Transmission, R 408.10701 to R 408.10765.

History: 2008 MR 5, Eff. Mar. 20, 2008.

**R 408.43205. Construction.**

Rule 3205. (1) Aerial work platforms shall be designed, constructed, and tested so as to be in compliance with the requirements of the following applicable American national standards institute standards:

(a) ANSI standard A92.2, 2002 edition, "Vehicle-Mounted Elevating and Rotating Aerial Devices."

(b) ANSI standard A92.3, 2006 edition, "Manually Propelled Elevating Aerial Platforms."

(c) ANSI standard A92.5, 2006 edition, "Boom-Supported Elevating Work Platforms."

(d) ANSI standard A92.6, 1999 edition, "Self-Propelled Elevating Work Platforms."

These standards are adopted by reference in R 408.43204a.

(2) Aerial work platforms shall not be field-modified for uses other than those intended by the manufacturer, unless the modification has been certified in writing by the manufacturer or by any other equivalent entity, such as a nationally recognized testing laboratory, to be in compliance with the applicable ANSI standard and this rule, and to be at least as safe as the equipment was before modification.

(3) Directional controls shall be in compliance with all of the following provisions:

(a) Be of the type that will automatically return to the off or neutral position when released.

(b) Be protected against inadvertent operation.

(c) Be clearly marked as to their intended function.

(d) An overriding control shall be provided in the platform which must be continuously activated for platform directional controls to be operational and which automatically returns to the off position when released.

(4) Aerial work platforms shall be equipped with emergency controls at ground level.

(5) Emergency ground level controls shall be clearly marked as to their intended function and be capable of overriding the platform controls.

(6) All of the following information shall be clearly marked in a permanent manner on each aerial work platform:

(a) Special workings, cautions, or restrictions necessary for operation.

(b) Rated work load.

(c) A clear statement of whether or not the aerial work platform is electrically insulated.

(7) Rotating shafts, gears, and other moving parts that are exposed to contact shall be guarded, as prescribed in general industry safety standard Part 7. "Guards for Power Transmission," R 408.10701 to R 408.10765.

(8) Attachment points shall be provided for fall protection devices for personnel who occupy the platform on aerial work platforms described in R 408.43202 (a) and (c). (See figures 1 and 3).

History: 1992 MR 6, Eff. July 9, 1992; 2000 MR 5, Eff. Apr. 27, 2000; 2008 MR 5, Eff. Mar. 20, 2008.

**R 408.43206. Inspection; maintenance; testing.**

Rule 3206. An employer shall comply with all of the following requirements:

(a) Each aerial work platform shall be inspected, maintained, repaired, and kept in proper working condition in accordance with the manufacturer's or owner's operating or maintenance and repair manual or manuals.

(b) Any aerial work platform found not to be in a safe operating condition shall be removed from service until repaired. All repairs shall be made by an authorized person in accordance with the manufacturer's or owner's operating or maintenance



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and repair manual or manuals.

(c) If the aerial work platform is rated and used as an insulated aerial device, the electrical insulating components shall be tested for compliance with the rating of the aerial work platform in accordance with ANSI standard A92.2, 2002 edition, which was adopted in R 408.43204a. Such testing shall comply with all of the following provisions:

- (i) The test shall be performed not less than annually.
  - (ii) Written, dated, and signed test reports shall be made available by the employer for examination by a department representative.
  - (iii) The insulated portion of an aerial device shall not be altered in any manner that might reduce its insulating value.
  - (d) All danger, caution, and control markings and operational plates shall be legible and not obscured.
- History: 1992 MR 6, Eff. July 9, 1992; 2000 MR 5, Eff. Apr. 27, 2000; 2008 MR 5, Eff. Mar. 20, 2008.

**R 408.43207**

**Source:** 1992 AACS.

**R 408.43208. Preoperational procedures.**

Rule 3208. (1) An operator shall inspect an aerial work platform for defects that would affect its safe operation and use before it is used on each work shift. The visual inspection shall consist of all of the following procedures:

- (a) Visual inspection for all of the following:
  - (i) Cracked welds.
  - (ii) Bent or broken structural members.
  - (iii) Hydraulic or fuel leaks.
  - (iv) Damaged controls and cables.
  - (v) Loose wires.
  - (vi) Tire condition.
  - (vii) Fuel and hydraulic fluid levels.
  - (viii) Slippery conditions on the platform.
- (b) Operate all platform and ground controls to ensure that they perform their intended function.
- (2) Before the aerial work platform is used, and during use on the job site, the operator shall inspect for all of the following:
  - (a) Ditches.
  - (b) Drop-offs.
  - (c) Holes.
  - (d) Bumps and floor obstructions.
  - (e) Debris.
  - (f) Overhead obstructions.
  - (g) Power lines.
  - (h) Similar conditions to those specified in subdivisions (a) to (g) of this subrule. The area around the aerial work platform shall also be inspected to assure clearance for the platform and other parts of the unit.
- (3) All unsafe items found as a result of the inspection of the aerial work platform or work area shall be corrected before further use of the aerial work platform.
- (4) The employer shall ensure before the commencement of operations near power lines and when the clearances cannot be maintained as specified in Tables 1-3, that the owner, owner representative, or utility are notified with all pertinent information about the job.
- (5) Any overhead wire shall be considered to be an energized line until the owner of the line, his or her authorized representative, or a utility representative assures one of the following:
  - (a) The line is de-energized and has been visibly grounded.
  - (b) The line is insulated for the system voltages and the task will not compromise the insulation of the conductor and/or cause an electrical hazard.

History: 1992 MR 6, Eff. July 9, 1992; 2008 MR 5, Eff. Mar. 20, 2008.

**R 408.43209. Electrical hazards.**

Rule 3209. (1) The employer shall ensure that an aerial work platform shall be operated so that the distances from energized power lines and equipment prescribed in Table 1 are maintained, except for the following:

- (a) As prescribed in subrule (2) of this rule addressing tree trimming.
- (b) As prescribed in subrule (3) of this rule addressing telecommunications.
- (c) Where insulating barriers are not a part of or an attachment to the aerial device that has been erected to prevent physical contact with the lines.

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(2) A qualified lineman or a qualified line clearance tree trimmer shall maintain distances as prescribed in Table 2 when performing work from an aerial work platform on or near an exposed power line unless any of the following conditions exist:

(a) The employee is insulated or guarded from the energized part by gloves or gloves and sleeves, as provided for and prescribed in Construction Safety Standard Part 6. "Personal Protective Equipment" and Construction Safety Standard Part 30. "Telecommunications."

(b) The employee is insulated, isolated, or guarded from any other conductive part.

(c) The energized part is insulated from the employee.

(3) A qualified telecommunications employee shall maintain the distances prescribed in Table 3 when working from an aerial lift, unless the employee is insulated, isolated, or guarded from any other conductive part or the energized part is insulated from the employee.

(4) Employees shall use insulated bucket, gloves and sleeves that are rated at more than the voltage to be worked on or that with which they might come into contact, to comply with subrules (2) and (3) of this rule.

(5) The clearances, as prescribed in Tables 1-3, do not apply when the owner of the line or his or her authorized representative, or a utility representative assures that the conductor is insulated for the system voltages and the task will not compromise the insulation of the conductor and/or cause an electrical hazard.

(6) Tables 1, 2, and 3 read as follows:

Table 1  
Minimum Clearance Distances for Equipment

Voltage	Clearance With Boom Raised	Clearance Boom Lowered and No Load in Transit
To 50 kV	10 feet	4 feet
Over 50 kV	10 feet + .4 inch per each 1 kV over 50 kV	10 feet
50 to 345 kV	--	10 feet
346 to 750 kV	--	15 feet

Table 2  
Minimum Working Distances for  
Qualified Line-Clearance Tree Trimmers and Qualified Linemen

Voltage Range Phase to Phase (kilovolts)	Minimum Working Distance
2.1 to 15.0	2 feet 0 inches (61 cm)
15.1 to 35.0	2 feet 4 inches (71 cm)
35.1 to 46.0	2 feet 6 inches (76 cm)
46.1 to 72.5	3 feet 0 inches (91 cm)
72.6 to 121.0	3 feet 4 inches (102 cm)
138.0 to 145.0	3 feet 6 inches (107 cm)
161.0 to 169.0	3 feet 8 inches (112 cm)
230.0 to 242.0	5 feet 0 inches (152 cm)
345.0 to 362.0	*7 feet 0 inches (213 cm)
550.0 to 552.0	*11 feet 0 inches (335 cm)

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700.0 to 765.0	*15 feet 0 inches (457 cm)
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\*Note: For 345-362 kV., 500-552 kV., and 700-765 kV., the minimum working distance and the minimum clear hot stick distance may be reduced that such distances are not less than the shortest distance between the energized part and a grounded surface.

Table 3  
Minimum Approach Distances for  
Qualified Telecommunications Employees

Voltage Range (Nominal Phase to Phase)	Minimum Approach Distances
300 V and less	1 foot - 0 inches (30.5 cm)
Over 300 V, not over 750 V	1 foot - 6 inches (46 cm)
Over 750 V, not over 2 kV	2 feet - 0 inches (61 cm)
Over 2 kV, not over 15 kV	3 feet - 0 inches (91 cm)
Over 15 kV, not over 37 kV	3 feet - 6 inches (107 cm)
Over 37 kV, not over 87.5 kV	4 feet - 0 inches (122 cm)
Over 87.5 kV, not over 121 kV	4 feet - 6 inches (137 cm)
Over 121 kV, not over 140 kV	—

History: 1992 MR 6, Eff. July 9, 1992; 1996 MR 8, Eff. Sept. 19, 1996; 2000 MR 5, Eff. Apr. 27, 2000; 2008 MR 5, Eff. Mar. 20, 2008.

**R 408.43210 Rescinded.**

History: 1992 MR 6, Eff. July 9, 1992; 2008 MR 5, Eff. Mar. 20, 2008.

**R 408.43212. Vehicles; traffic control.**

Rule 3212. (1) Before moving a vehicle supporting an aerial ladder for highway travel, employees shall secure ladders in the lower position and shall use the manually operated device at the base of the ladder, or other effective means to prevent elevation or rotation of the ladder.

(2) Before moving a vehicle supporting an aerial lift for travel, employees shall inspect the boom to ensure that it is properly cradled and the outriggers are in the stowed position, except as provided in subrule (3) of this rule.

(3) When a boom is elevated with employees in working position, the vehicle supporting an aerial device shall not be moved unless the equipment is specifically designed for this type of operation and meets the requirements of R 408.43205.

(4) Before and during travel, except as provided for horizontal movement in R 408.43216(9), an operator shall do all of the following:

- (a) Inspect to see that booms, platforms, aerial ladders, or towers are properly cradled or secured.
- (b) Ensure that outriggers are in a stored position.
- (c) Limit travel speed according to the following factors:
  - (i) Condition of the surface.
  - (ii) Congestion.
  - (iii) Slope.
  - (iv) Location of personnel.
  - (v) Other hazards.

(5) An employer shall ensure that operators of an aerial work platform over or adjacent to any public or private roadway maintain adequate clearances of all portions of the aerial work platform to prevent being struck by vehicular traffic.

(6) When aerial work platforms are in use, all traffic control requirements shall be in compliance with Part 6 of the 2005 Michigan Manual on Uniform Traffic Control Devices (MMUTCD), which is adopted in R 408.43204a, and Construction Safety Part 22. Signals, Signs, Tags, and Barricades, R 408.42201 to R 408.42243.

History: 2008 MR 5, Eff. Mar. 20, 2008.

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**R 408.43214. Fall protection.**

Rule 3214. (1) The employer shall provide a safety harness that has a lanyard which is in compliance with construction safety standard Part 45. "Fall Protection," R 408.44501 to R 408.44502 and which is affixed to attachment points provided and approved by the manufacturer. Any occupant of an aerial work platform described in the provisions of R 408.43202(a) and (c) and figures 1 and 3 shall use the harness. A fall arrest system shall only be used where the aerial lift is designed to withstand the vertical and lateral loads caused by an arrested fall.

(2) An employee may use a body belt with a restraint device with the lanyard and the anchor arranged so that the employee is not exposed to any fall distance. An employee shall use a restraint device where the aerial lift cannot withstand the vertical and lateral loads imposed by an arrested fall.

(3) An employee shall be prohibited from belting off to an adjacent pole, structure, or equipment while working from an aerial work platform.

(4) An employer shall not allow employees to exit an elevated aerial work platform, except where elevated work areas are inaccessible or hazardous to reach. Employees may exit the platform with the knowledge and consent of the employer. When employees exit to unguarded work areas, fall protection shall be provided and used as required in construction safety standard Part 45. "Fall Protection," R 408.44501 to R 408.44502.

(5) An employer shall provide for prompt rescue of employees in the event of a fall or shall ensure that employees are able to rescue themselves.

History: 2008 MR 5, Eff. Mar. 20, 2008.

**R 408.43216. Operating procedures.**

Rule 3216 (1) The aerial work platform shall be used only in accordance with the manufacturers or owners operating instructions and safety rules.

(2) The designed rated capacity for a given angle of elevation shall not be exceeded.

(3) Proximity warning devices may be used, but shall not be used to avoid meeting the requirements of this rule.

(4) The manufacturer's rated load capacity shall not be exceeded. The employer shall ensure that the load and its distribution on the platform are in accordance with the manufacturer's specifications. The aerial work platform rated load capacity shall not be exceeded when loads are transferred to the platform at elevated heights.

(5) Only employees, their tools, and necessary materials shall be on or in the platform.

(6) The guardrail system of the platform shall not be used to support any of the following:

(a) Materials.

(b) Other work platforms.

(c) Employees.

(7) Employees shall maintain firm footing on the platform while working on the platform. The use of railings, planks, ladders, or any other devices on the platform for achieving additional height is prohibited.

(8) Fuel gas cylinders shall not be carried on platforms that would allow the accumulation of gases.

(9) Only aerial work platforms that are equipped with a manufacturer's installed platform controls for horizontal movement shall be moved while in the elevated position.

(10) Before and during driving while elevated, an operator of a platform shall do both of the following:

(a) Look in the direction of, and keep a clear view of, the path of travel and make sure that the path is firm and level.

(b) Maintain a safe distance from all of the following:

(i) Obstacles.

(ii) Debris.

(iii) Drop-offs.

(iv) Holes.

(v) Depressions.

(vi) Ramps.

(vii) Overhead obstructions.

(viii) Overhead electrical lines.

(ix) Other hazards to safe elevated travel.

(11) Outriggers or stabilizers, when provided, and are to be used in accordance with the manufacturer's instruction. Brakes shall be set and outriggers and stabilizers shall be positioned on pads or a solid surface.

(12) Aerial work platforms shall be elevated only when on a firm and level surface or within the slope limits allowed by the manufacturer's instructions.

(13) A vehicle-mounted aerial work platform (figure 1) shall have its brakes set before elevating the platform.

(14) A vehicle-mounted aerial work platform (figure 1) shall have wheel chocks installed before using the unit on an incline.

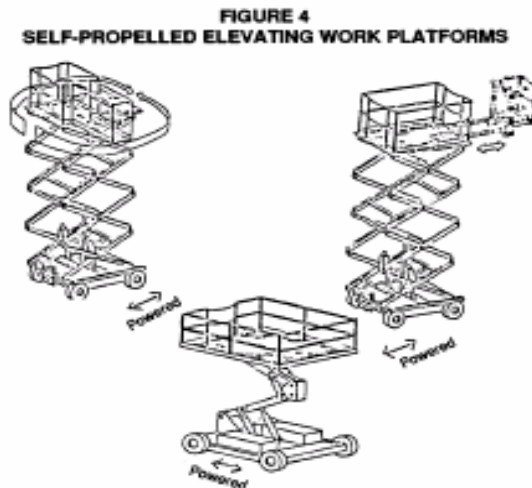
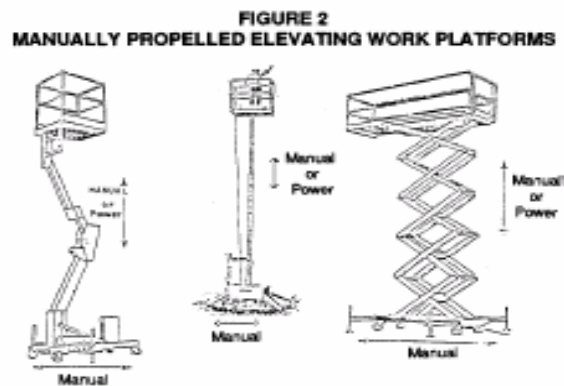
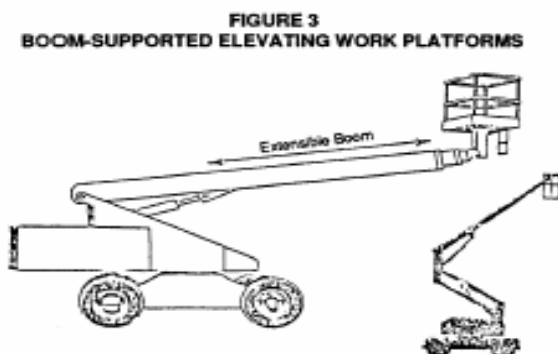
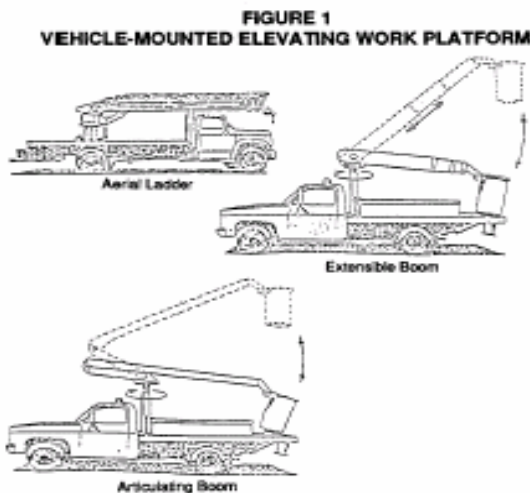
(15) Climbers shall not be worn while performing work from an aerial work platform.

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- (16) Platform gates shall be closed while the platform is in an elevated position.
  - (17) Altering, modifying, or disabling safety devices or interlocks is prohibited.
  - (18) Care shall be taken by the employer to prevent ropes, cords, and hoses from becoming entangled in the aerial work platform.
  - (19) A platform operator shall ensure that the area surrounding the aerial work platform is clear of personnel and equipment before lowering the platform.
  - (20) The aerial work platform shall not be positioned against another object to steady the platform.
  - (21) The aerial work platform shall not be operated from a position on a truck, trailer, railway car, floating vessel, scaffold, or similar equipment.
  - (22) The boom and platform of the aerial work platform shall not be used to move or jack the wheels off the ground unless the machine is designed for that purpose by the manufacturer.
  - (23) If the platform or elevating assembly becomes caught, snagged, or otherwise prevented from normal motion by adjacent structures or other obstacles so that control reversal does not free the platform, all employees shall exit from the platform before attempts are made to free the platform.
  - (24) Stunt driving and horseplay are prohibited.
- History: 2008 MR 5, Eff. Mar. 20, 2008.

**R 408.43220. Figures.**

Rule 3220. Figures 1 to 4 are as follows:



History: 2008 MR 5, Eff. Mar. 20, 2008.

**PART 42. HAZARD COMMUNICATION**

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**R 408.44201**  
Source: 1995 AACS.

**R 408.44202**  
Source: 1995 AACS.

**R 408.44203**  
Source: 1995 AACS.

**PART 45. FALL PROTECTION**

**R 408.44501**  
Source: 1996 AACS.

**R 408.44502**  
Source: 1996 AACS.

**PART 51. AGRICULTURAL TRACTORS**

**R 408.45101**  
Source: 1997 AACS.

**PART 53. FARM FIELD EQUIPMENT**

**R 408.45301**  
Source: 1979 AC.

**PART 91. PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS**

**R 408.49101**  
Source: 1998-2000 AACS.

**R 408.49102**  
Source: 1998-2000 AACS.

**DEPARTMENT OF EDUCATION**  
**VOCATIONAL-TECHNICAL EDUCATION SERVICE**  
**STANDARDS FOR ISSUANCE OF WORK PERMITS**

**R 409.1**  
Source: 1980 AACS.

**R 409.2**  
Source: 1980 AACS.

**R 409.3**  
Source: 1980 AACS.

**R 409.4**  
Source: 1980 AACS.

**R 409.5**  
Source: 1980 AACS.

**R 409.6**  
Source: 1980 AACS.

**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**  
**DIRECTOR'S OFFICE**

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**WORKER'S COMPENSATION APPELLATE COMMISSION**  
**ADMINISTRATIVE APPELLATE PROCEDURE**

**R 418.1**  
Source: 1991 AACS.

**R 418.2**  
Source: 2007 AACS.

**R 418.3**  
Source: 1991 AACS.

**R 418.4**  
Source: 2007 AACS.

**R 418.5**  
Source: 1991 AACS.

**R 418.6**  
Source: 2007 AACS.

**R 418.7**  
Source: 2006 AACS.

**R 418.8**  
Source: 2007 AACS.

**WORKER'S COMPENSATION BOARD OF MAGISTRATES**

**R 418.51**  
Source: 1996 AACS.

**R 418.52**  
Source: 1996 AACS.

**R 418.53**  
Source: 1996 AACS.

**R 418.54**  
Source: 1996 AACS.

**R 418.55**  
Source: 1996 AACS.

**R 418.56**  
Source: 2007 AACS.

**R 418.57**  
Source: 1996 AACS.

**R 418.58**  
Source: 1996 AACS.

**BUREAU OF WORKER'S DISABILITY COMPENSATION**  
**WORKER'S COMPENSATION HEALTH CARE SERVICES**

**PART 1. GENERAL PROVISIONS**

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**R 418.101**  
Source: 1998-2000 AACS.

**R 418.102**  
Source: 1998-2000 AACS.

**R 418.103**  
Source: 1998-2000 AACS.

**R 418.104**  
Source: 1998-2000 AACS.

**R 418.105**  
Source: 1998-2000 AACS.

**R 418.106**  
Source: 1998-2000 AACS.

**R 418.107**  
Source: 1998-2000 AACS.

**R 418.108**  
Source: 1998-2000 AACS.

**R 418.109**  
Source: 1998-2000 AACS.

**R 418.110**  
Source: 1998-2000 AACS.

**R 418.111**  
Source: 1998-2000 AACS.

**R 418.112**  
Source: 1998-2000 AACS.

**R 418.113**  
Source: 1998-2000 AACS.

**R 418.114**  
Source: 1998-2000 AACS.

**R 418.115**  
Source: 1998-2000 AACS.

**R 418.116**  
Source: 1998-2000 AACS.

**R 418.117**  
Source: 1998-2000 AACS.

**R 418.118**  
Source: 1998-2000 AACS.

**R 418.119**  
Source: 1998-2000 AACS.

**R 418.120**



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**Source:** 1998-2000 AACS.

**R 418.121**

**Source:** 1998-2000 AACS.

**R 418.122**

**Source:** 1998-2000 AACS.

**R 418.123**

**Source:** 1998-2000 AACS.

**R 418.124**

**Source:** 1998-2000 AACS.

**R 418.125**

**Source:** 1998-2000 AACS.

**R 418.126**

**Source:** 1998-2000 AACS.

**R 418.127**

**Source:** 1998-2000 AACS.

**R 418.128**

**Source:** 1998-2000 AACS.

**R 418.129**

**Source:** 1998-2000 AACS.

**R 418.130**

**Source:** 1998-2000 AACS.

**R 418.131**

**Source:** 1998-2000 AACS.

**R 418.132**

**Source:** 1998-2000 AACS.

**PART 2. MEDICINE AND EVALUATION AND MANAGEMENT SERVICES**

**R 418.201**

**Source:** 1998-2000 AACS.

**R 418.202**

**Source:** 1998-2000 AACS.

**R 418.203**

**Source:** 1998-2000 AACS.

**R 418.204**

**Source:** 1998-2000 AACS.

**R 418.205**

**Source:** 1998-2000 AACS.

**R 418.206**

**Source:** 1998-2000 AACS.

**R 418.207**

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**Source:** 1998-2000 AACS.

**R 418.208**

**Source:** 1998-2000 AACS.

**R 418.209**

**Source:** 1998-2000 AACS.

**R 418.210**

**Source:** 1998-2000 AACS.

**R 418.211**

**Source:** 1998-2000 AACS.

**R 418.212**

**Source:** 1998-2000 AACS.

**R 418.213**

**Source:** 1998-2000 AACS.

**R 418.214**

**Source:** 1998-2000 AACS.

**R 418.215**

**Source:** 1998-2000 AACS.

**R 418.216**

**Source:** 1998-2000 AACS.

**PART 3. ANESTHESIA**

**R 418.301**

**Source:** 1998-2000 AACS.

**R 418.302**

**Source:** 1998-2000 AACS.

**R 418.303**

**Source:** 1998-2000 AACS.

**R 418.304**

**Source:** 1998-2000 AACS.

**R 418.305**

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**R 418.306**

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**R 418.307**

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**R 418.308**

**Source:** 1998-2000 AACS.

**R 418.309**

**Source:** 1998-2000 AACS.

**PART 4. SURGERY**

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**R 418.401**  
Source: 1998-2000 AACS.

**R 418.402**  
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**R 418.403**  
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**R 418.406**  
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**R 418.407**  
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**R 418.408**  
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**R 418.409**  
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**R 418.410**  
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**R 418.411**  
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**R 418.412**  
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**R 418.413**  
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**R 418.414**  
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**R 418.415**  
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**R 418.416**  
Source: 1998-2000 AACS.

**R 418.417**  
Source: 1998-2000 AACS.

**R 418.418**  
Source: 1998-2000 AACS.

**PART 5. RADIOLOGY, RADIATION THERAPY, AND NUCLEAR MEDICINE**

**R 418.501**

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**Source:** 1998-2000 AACS.

**R 418.502**

**Source:** 1998-2000 AACS.

**R 418.503**

**Source:** 1998-2000 AACS.

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**Source:** 1998-2000 AACS.

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**R 418.506**

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**R 418.507**

**Source:** 1998-2000 AACS.

**R 418.508**

**Source:** 1998-2000 AACS.

**R 418.509**

**Source:** 1998-2000 AACS.

**PART 6. PATHOLOGY AND LABORATORY**

**R 418.601**

**Source:** 1998-2000 AACS.

**R 418.602**

**Source:** 1998-2000 AACS.

**R 418.603**

**Source:** 1998-2000 AACS.

**R 418.604**

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**R 418.610**

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**R 418.611**

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**Source:** 1998-2000 AACS.

**R 418.612**

**Source:** 1998-2000 AACS.

**PART 7. DENTAL**

**R 418.701**

**Source:** 1998-2000 AACS.

**R 418.702**

**Source:** 1998-2000 AACS.

**R 418.703**

**Source:** 1998-2000 AACS.

**R 418.704**

**Source:** 1998-2000 AACS.

**R 418.705**

**Source:** 1998-2000 AACS.

**PART 8. AMBULANCE SERVICE**

**R 418.801**

**Source:** 1998-2000 AACS.

**R 418.802**

**Source:** 1998-2000 AACS.

**PART 9. HOME HEALTH AGENCY**

**R 418.901**

**Source:** 1998-2000 AACS.

**R 418.902**

**Source:** 1998-2000 AACS.

**R 418.903**

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**R 418.904**

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**R 418.905**

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**PART 10. PHARMACY AND MEDICAL SUPPLY SERVICE**

**R 418.1001**

**Source:** 1998-2000 AACS.

**R 418.1002**

**Source:** 1998-2000 AACS.

**R 418.1003**

**Source:** 1998-2000 AACS.

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**R 418.1004**  
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**R 418.1005**  
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**R 418.1006**  
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**R 418.1007**  
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**PART 11. OCCUPATIONAL THERAPY AND PHYSICAL THERAPY**

**R 418.1101**  
Source: 1998-2000 AACS.

**R 418.1102**  
Source: 1998-2000 AACS.

**R 418.1103**  
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**R 418.1104**  
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**R 418.1105**  
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**R 418.1106**  
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**PART 12. ORTHOTIC AND PROSTHETIC EQUIPMENT**

**R 418.1201**  
Source: 1998-2000 AACS.

**R 418.1202**  
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**R 418.1203**  
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**R 418.1204**  
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**PART 13. HEARING SERVICE**

**R 418.1301**  
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**R 418.1302**  
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**PART 14. VISION AND PROSTHETIC OPTICAL SERVICE**

**R 418.1401**  
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**R 418.1402**  
Source: 1998-2000 AACS.

**PART 15. MISCELLANEOUS SUPPLIER**

**R 418.1501**  
Source: 1998-2000 AACS.

**R 418.1502**  
Source: 1998-2000 AACS.

**R 418.1503**  
Source: 1998-2000 AACS.

**PART 16. FACILITY SERVICE**

**R 418.1601**  
Source: 1998-2000 AACS.

**R 418.1602**  
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**R 418.1603**  
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**R 418.1604**  
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**R 418.1606**  
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**R 418.1615**  
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**R 418.1616**  
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**R 418.1617**  
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**PART 17. TECHNICAL AND PROFESSIONAL HEALTH CARE REVIEW**

**R 418.1701**  
Source: 1998-2000 AACS.

**R 418.1702**  
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**R 418.1703**  
Source: 1998-2000 AACS.

**R 418.1704**  
Source: 1998-2000 AACS.

**R 418.1705**  
Source: 1998-2000 AACS.

**R 418.1706**  
Source: 1998-2000 AACS.

**R 418.1707**  
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**R 418.1708**  
Source: 1998-2000 AACS.

**PART 18. DATA ACQUISITION FROM CARRIERS, PROVIDERS, AND FACILITIES**

**R 418.1801**  
Source: 1998-2000 AACS.

**R 418.1802**  
Source: 1998-2000 AACS.

**R 418.1803**  
Source: 1998-2000 AACS.

**R 418.1804**  
Source: 1998-2000 AACS.

**PART 19. PROCESS FOR RESOLVING DIFFERENCES  
BETWEEN CARRIER AND PROVIDER REGARDING BILL**

**R 418.1901**  
Source: 1998-2000 AACS.

**R 418.1902**  
Source: 1998-2000 AACS.



**R 418.1903**  
Source: 1998-2000 AACS.

**R 418.1904**  
Source: 1998-2000 AACS.

**R 418.1905**  
Source: 1998-2000 AACS.

**PART 20. RECONSIDERATION AND APPEAL OF ACTIONS OF  
REGARDING HOSPITAL'S MAXIMUM PAYMENT RATIO AND  
CERTIFICATION OF CARRIER'S PROFESSIONAL REVIEW PROGRAM**

**R 418.2001**  
Source: 1998-2000 AACS.

**R 418.2002**  
Source: 1998-2000 AACS.

**R 418.2003**  
Source: 1998-2000 AACS.

**R 418.2004**  
Source: 1998-2000 AACS.

**R 418.2005**  
Source: 1998-2000 AACS.

**PART 21. PAYMENT**

**R 418.2101**  
Source: 1998-2000 AACS.

**R 418.2102**  
Source: 1998-2000 AACS.

**R 418.2103**  
Source: 1998-2000 AACS.

**R 418.2104**  
Source: 1998-2000 AACS.

**R 418.2105**  
Source: 1998-2000 AACS.

**R 418.2106**  
Source: 1998-2000 AACS.

**R 418.2107**  
Source: 1998-2000 AACS.

**R 418.2108**  
Source: 1998-2000 AACS.

**R 418.2109**  
Source: 1998-2000 AACS.

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**R 418.2110**  
Source: 1998-2000 AACS.

**R 418.2111**  
Source: 1998-2000 AACS.

**R 418.2112**  
Source: 1998-2000 AACS.

**R 418.2113**  
Source: 1998-2000 AACS.

**R 418.2114**  
Source: 1998-2000 AACS.

**R 418.2115**  
Source: 1998-2000 AACS.

**R 418.2116**  
Source: 1998-2000 AACS.

**R 418.2117**  
Source: 1998-2000 AACS.

**R 418.2118**  
Source: 1998-2000 AACS.

**R 418.2119**  
Source: 1998-2000 AACS.

**PART 22. BILLING BY PRACTITIONER OR HEALTH CARE ORGANIZATION**

**R 418.2201**  
Source: 1998-2000 AACS.

**R 418.2202**  
Source: 1998-2000 AACS.

**R 418.2203**  
Source: 1998-2000 AACS.

**R 418.2204**  
Source: 1998-2000 AACS.

**R 418.2205**  
Source: 1998-2000 AACS.

**R 418.2206**  
Source: 1998-2000 AACS.

**PART 23. FEE SCHEDULE**

**R 418.2301**  
Source: 1998-2000 AACS.

**R 418.2302**  
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**R 418.2303**  
Source: 1998-2000 AACS.

**R 418.2304**  
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**R 418.2305**  
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**R 418.2306**  
Source: 1998-2000 AACS.

**R 418.2307**  
Source: 1998-2000 AACS.

**R 418.2308**  
Source: 1998-2000 AACS.

**R 418.2308a**  
Source: 1998-2000 AACS.

**R 418.2309**  
Source: 1998-2000 AACS.

**R 418.2310**  
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**R 418.2311**  
Source: 1998-2000 AACS.

**R 418.2312**  
Source: 1998-2000 AACS.

**R 418.2313**  
Source: 1998-2000 AACS.

**R 418.2314**  
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**R 418.2315**  
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**R 418.2316**  
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**R 418.2317**  
Source: 1998-2000 AACS.

**R 418.2318**  
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**R 418.2319**  
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**R 418.2320**  
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**R 418.2321**  
**Source:** 1998-2000 AACS.

**R 418.2322**  
**Source:** 1998-2000 AACS.

**R 418.2323**  
**Source:** 1998-2000 AACS.

**R 418.2324**  
**Source:** 1998-2000 AACS.

**R 418.2325**  
**Source:** 1998-2000 AACS.